

[illegible][illegible]

```
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  CCCCCCCC  MM      MM  DDDDDDDD
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  CCCCCCCC  MM      MM  DDDDDDDD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GG      GG      EE      TT      CC      MM      MM  DD      DD
GGGGGG  EEEEEEEEE  TTT      CCCCCCCC  MM      MM  DDDDDDDD
GGGGGG  EEEEEEEEE  TTT      CCCCCCCC  MM      MM  DDDDDDDD
```

```
LL      IIIIIII  SSSSSSSS
LL      IIIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLL  IIIIIII  SSSSSSSS
LLLLLLLL  IIIIIII  SSSSSSSS
```

```
1 0001 0 MODULE LIB_GETCMD ( ! Get LIBRARIAN command line
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: Library command processor
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 The VAX/VMS librarian is invoked by DCL to process the LIBRARY
38 0038 1 command. It utilizes the librarian procedure set to perform
39 0039 1 the actual modifications to the library.
40 0040 1
41 0041 1 ENVIRONMENT:
42 0042 1
43 0043 1 VAX native, user mode.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Benn Schreiber, CREATION DATE: 11-June-1979
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-007 GJA0085 Greg Awdziewicz 27-Jun-1984
53 0053 1 - Don't overwrite lib$gl type and default extensions
54 0054 1 which were set because of a library-type qualifier just
55 0055 1 because an extension was specified on the library file
56 0056 1 specification. (Important especially for inserting into
57 0057 1 a shareable image library.)
```


| | | | | | |
|----|----|------|---|----|--|
| .. | 58 | 0058 | 1 | | |
| .. | 59 | 0059 | 1 | | |
| .. | 60 | 0060 | 1 | | |
| .. | 61 | 0061 | 1 | | |
| .. | 62 | 0062 | 1 | | |
| .. | 63 | 0063 | 1 | | |
| .. | 64 | 0064 | 1 | | |
| .. | 65 | 0065 | 1 | | |
| .. | 66 | 0066 | 1 | | |
| .. | 67 | 0067 | 1 | | |
| .. | 68 | 0068 | 1 | | |
| .. | 69 | 0069 | 1 | | |
| .. | 70 | 0070 | 1 | | |
| .. | 71 | 0071 | 1 | | |
| .. | 72 | 0072 | 1 | | |
| .. | 73 | 0073 | 1 | | |
| .. | 74 | 0074 | 1 | | |
| .. | 75 | 0075 | 1 | | |
| .. | 76 | 0076 | 1 | | |
| .. | 77 | 0077 | 1 | | |
| .. | 78 | 0078 | 1 | | |
| .. | 79 | 0079 | 1 | | |
| .. | 80 | 0080 | 1 | | |
| .. | 81 | 0081 | 1 | | |
| .. | 82 | 0082 | 1 | | |
| .. | 83 | 0083 | 1 | -- | |

| | | | |
|---------|---|-------------------|-------------|
| V03-006 | GJA0075 | Greg Awdziewicz | 10-Feb-1984 |
| | - Use the new improved LIB\$File scan with multiple sticky file and searchlist capability. Remove uses of related filename nameblock. | | |
| V03-005 | MCN0145 | Maria del C. Nasr | 07-Feb-1984 |
| | Add qualifier /DATA with keywords REDUCE and EXPAND to replace /COMPRESS=REDUCE. We will share the same flags, and routines originally used with /COMPRESS. | | |
| V03-004 | JWT0115 | Jim Teague | 27-Apr-1983 |
| | Made /SQUEEZE default. | | |
| V03-003 | JWT0103 | Jim Teague | 05-Apr-1983 |
| | New CLI interface. | | |
| V03-002 | JWT0056 | Jim Teague | 16-Sep-1982 |
| | Implemented DCX interface for /COMPRESS=REDUCE | | |
| V03-001 | RPG0301 | Bob Grosso | 27-Apr-1982 |
| | Add subtitles to listing and fix /QUAL="" so the novalue error message has the name of the qualifier filled in. | | |

```
Declarations

: 85      0084 1 %SBTTL 'Declarations';
: 86      0085 1
: 87      0086 1 LIBRARY
: 88      0087 1 'SYSS$LIBRARY:STARLET.L32';           !System data structure definitions
: 89      0088 1 LIBRARY
: 90      0089 1 'SYSS$LIBRARY:CLIMAC.L32';           !Command language data structure defs.
: 91      0090 1 LIBRARY
: 92      0091 1 'SYSS$LIBRARY:TPAMAC.L32';           !Table driven finite state parser macros
: 93      0092 1 REQUIRE
: 94      0093 1 'PREFIX';                             !Macro defs, etc.
: 95      0277 1 REQUIRE
: 96      0278 1 'LIBDEF';                             !Librarian command interface definitions
: 97      0566 1
: 98      P 0567 1 sd ( 'MODULES', 'BEFORE', 'COMPRESS', 'CREATE', 'CROSS REFERENCE', 'DATA',
: 99      P 0568 1 'DELETE', 'EXTRACT', 'FULL', 'GLOBALS', 'HELP', 'HISTORY',
: 100     P 0569 1 'INSERT', 'LIST', 'LOG', 'MACRO', 'NAMES',
: 101     P 0570 1 'OBJECT', 'ONLY', 'OUTPUT', 'REMOVE', 'REPLACE', 'SELECTIVE_SEARCH', 'SHARE',
: 102     0571 1 'SINCE', 'SQUEEZE', 'TEXT', 'WIDTH', 'P1', 'P2' );
: 103     0572 1
: 104     0573 1 LITERAL
: 105     0574 1     qualtabsiz = 24,
: 106     0575 1     fdbsize = fdb$size + nam$c_bln           !Define total size of an FDB
: 107     0576 1     + (2 * nam$c_maxrss);
: 108     0577 1
: 109     0578 1 EXTERNAL ROUTINE
: 110     0579 1     lib$cvd_dtb : addressing_mode(general),
: 111     0580 1     cli$get_value,
: 112     0581 1     cli$present,
: 113     0582 1     getfilnamdesc,                         !Return string descriptor for filename
: 114     0583 1     lib$get_mem,                           !Allocate virtual memory
: 115     0584 1     lib$cvd_time : ADDRESSING_MODE (GENERAL), !convert ascii time to binary
: 116     0585 1     lib$file_scan : ADDRESSING_MODE (GENERAL), !Find wild-card files
: 117     0586 1     lib$tparse : ADDRESSING_MODE (GENERAL),  !Table driven parser
: 118     0587 1     lib$lookup_key : ADDRESSING_MODE (GENERAL), !Look up qualifier keyword
: 119     0588 1     lib_free_mem;                          !Deallocate virtual memory
: 120     0589 1
: 121     0590 1 FORWARD ROUTINE
: 122     0591 1     clearsqueeze,                         !Clear local squeeze bit
: 123     0592 1     setsqueeze,                           !Set local squeeze bit
: 124     0593 1     selectcrosref,                        !Select cross reference options
: 125     0594 1     scan_options,                         !Scan create/compress/data options
: 126     0595 1     call_tparse,                          !call lib$tparse
: 127     0596 1     syntaxerr,                            !report tparse syntaxerr
: 128     0597 1     value_req,                             !Set flag that a value is required on create/compress option
: 129     0598 1     set_macro_type,                       /MACRO
: 130     0599 1     set_object_type,                      /OBJECT
: 131     0600 1     set_help_type,                        /HELP
: 132     0601 1     set_text_type,                        /TEXT
: 133     0602 1     set_shr_type,                         /SHARE
: 134     0603 1     set_lib_type,                        !Does the work for set_xx_type
: 135     0604 1     listonlymods,                        /ONLY
: 136     0605 1     setmodulename,                       /MODULES
: 137     0606 1     compressfile,                        /COMPRESS
: 138     0607 1     createlib,                           /CREATE
: 139     0608 1     datareduce,                          /DATA
: 140     0609 1     extractfile,                        /EXTRACT
: 141     0610 1     deletemodules,                       /DELETE
```



```

: 142 0611 1 setlistfile, /LIST
: 143 0612 1 setlistwidth, /WIDTH
: 144 0613 1 removesymbols, /REMOVE
: 145 0614 1 outputfile, /OUTPUT processor
: 146 0615 1 input1file, Primary input file processor
: 147 0616 1 input2file, Secondary input file processor
: 148 0617 1 get_name_list, Extract args from qualifier
: 149 0618 1 filescanfract, Action routine for successful file scan
: 150 0619 1 filescanflsact, Action routine for unsuccessful scan
: 151 0620 1 initialize_fdb, Initialize an FDB
: 152 0621 1 date_parse, Parse date for /BEFORE and /SINCE
: 153 0622 1 since_date,
: 154 0623 1 before_date,
: 155 0624 1 allocate_fdb, !Allocate file descriptor block
: 156 0625 1 clierror: novalue; !Process CLI errors
: 157 0626 1
: 158 0627 1 EXTERNAL
: 159 0628 1 lib$before_date : BBLOCK, !Date from /BEFORE
: 160 0629 1 lib$since_date : BBLOCK, !Date from /SINCE
: 161 0630 1 lib$al_creopts : VECTOR [ ,LONG], !Array of create option values
: 162 0631 1 lib$gl_cre8flags : BITVECTOR, !Bit flags for specified create/compress options
: 163 0632 1 lib$gl_listwid, !width of library list line
: 164 0633 1 lib$gl_type, !Library type
: 165 0634 1 lib$gl_modlist : VECTOR [2], !Listhead for "list only" name list
: 166 0635 1 lib$gl_modxtrl : VECTOR [2], !Listhead for module extraction
: 167 0636 1 lib$gl_modupdl : VECTOR [2], !Listhead for library updates
: 168 0637 1 lib$gl_objsyml : VECTOR [2], !Listhead for object module symbol removal
: 169 0638 1 lib$gl_delmodl : VECTOR [2], !Listhead for deleted module list
: 170 0639 1 lib$gl_ctlmsk : BLOCK [2], !Control mask for Librarian
: 171 0640 1 lib$gl_libfdb : REF BBLOCK, !FDB for library file
: 172 0641 1 lib$gl_outfdb : REF BBLOCK, !FDB for output file
: 173 0642 1 lib$gl_lisfdb : REF BBLOCK, !FDB for listing file
: 174 0643 1 lib$gl_tmprfdb : REF BBLOCK, !FDB for temporary use
: 175 0644 1 lib$gl_inplist : REF BBLOCK, !Listhead for input files list
: 176 0645 1 lib_mac_defext : BBLOCK, !Default extension for macro source files
: 177 0646 1 lib_obj_defext : BBLOCK, !...for object files
: 178 0647 1 lib_hlp_defext : BBLOCK, !...for help files
: 179 0648 1 lib_txt_defext : BBLOCK, !...for text files
: 180 0649 1 lib_shr_defext : BBLOCK; !...for shr img stb libraries
: 181 0650 1
: 182 0651 1 GLOBAL
: 183 0652 1 lib$gl_tpindex,
: 184 0653 1 lib$gl_valreq,
: 185 0654 1 lib$gl_creflags : BLOCK [1]; !Cross reference flags
: 186 0655 1
: 187 0656 1 OWN
: 188 0657 1
: 189 0658 1 qual_table : vector [ qualtabsiz, long ] initial
: 190 0659 1 ( sd_before, sd_compress, sd_create, sd_cross_reference,
: 191 0660 1 sd_data, sd_delete, sd_extract, sd_full,
: 192 0661 1 sd_globals, sd_help, sd_history, sd_list, sd_log, sd_macro, sd_names, sd_object,
: 193 0662 1 sd_only, sd_remove, sd_share, sd_since, sd_text, sd_replace, sd_insert, sd_squeeze ),
: 194 0663 1
: 195 0664 1 bit_table : vector [ qualtabsiz, byte ] initial ( byte
: 196 0665 1 ( $bitposition(lib$before), $bitposition(lib$compress),
: 197 0666 1 $bitposition(lib$create), $bitposition(lib$cross),
: 198 0667 1 $bitposition(lib$data), $bitposition(lib$delete), $bitposition(lib$extract),
```

Declarations

```
: 199      0668 1      $bitposition(lib$y_full), $bitposition(lib$y_globals), $bitposition(lib$y_help),
: 200      0669 1      $bitposition(lib$y_history), $bitposition(lib$y_list), $bitposition(lib$y_log),
: 201      0670 1      $bitposition(lib$y_macro), $bitposition(lib$y_names), $bitposition(lib$y_object),
: 202      0671 1      $bitposition(lib$y_only), $bitposition(lib$y_remove), $bitposition(lib$y_shrstb),
: 203      0672 1      $bitposition(lib$y_since), $bitposition(lib$y_text), $bitposition(lib$y_replace),
: 204      0673 1      $bitposition(lib$y_insert), $bitposition(lib$y_squeeze) )),
: 205      0674 1
: 206      0675 1      call_table : vector [ qualabsiz, long ] initial
: 207      0676 1      ( before_date, compressfile, createlib, selectcrosref,
: 208      0677 1      datareduce, deletemodules, extractfile, 0, 0,
: 209      0678 1      set_help_type, 0, setlistfile, 0, set_macro_type, 0, set_object_type, listonlymods,
: 210      0679 1      removesymbols, set_shr_type, since_date, set_text_type, 0, 0, 0 ),
: 211      0680 1
: 212      P 0681 1      crf_table : $lib_key_table (
: 213      0682 1      ( SYMBOL, 0 ), ( VALUE, 1 ), ( MODULE, 2 ) ),
: 214      P 0683 1      opt_table : $lib_key_table (
: 215      0684 1      ( ALL, 0 ), ( NONE, 1 ) ),
: 216      0685 1
: 217      0686 1      Other OWN storage
: 218      0687 1
: 219      0688 1      list_desc : dynamic_descriptor,
: 220      0689 1      squeeze_flag : INITIAL (1),
: 221      0690 1      def_lib_extn : BBLOCK [dsc$y_s_bln],
: 222      0691 1      def_fil_extn : BBLOCK [dsc$y_s_bln],
: 223      0692 1      lastfdb : REF BBLOCK,
: 224      0693 1      prevfdb : REF BBLOCK,
: 225      0694 1      sysoutputdesc : descriptor ('SYS$OUTPUT:'),
: 226      0695 1      modulename_desc : dynamic_descriptor,
: 227      0696 1      cliworkptr,
: 228      0697 1      filesnotfound,
: 229      0698 1      token_desc : dynamic_descriptor,
: 230      0699 1      crf_by_symbol : descriptor ('SYMBOL'),
: 231      0700 1      crf_by_value : descriptor ('VALUE'),
: 232      0701 1      crf_by_module : descriptor ('MODULE'),
: 233      0702 1      crf_by_none : LONG INITIAL (0),
: 234      0703 1      all_options : descriptor ('ALL'),
: 235      0704 1      no_options : descriptor ('NONE'),
: 236      0705 1      end_options : LONG INITIAL (0),
: 237      0706 1
: 238      0707 1      tpa_block : BBLOCK [tpa$y_length0],
: 239      0708 1      tpa_desc : REF BBLOCK;
: 240      0709 1
```

```
!Cleared if /NOSQUEEZE.
!Default extension for libraries
!Default extension for other files
!Pointer to last FDB allocated
!Pointer to previous of last
!String descriptor for SYS$OUTPUT
!String descriptor for /MODULES=
!Pointer to cli work area
!Count of not found files
!Cross reference by symbol
!Cross reference by value
!Cross reference by module
!End of crf options
!All of the options
!None of the options
!End of all/none
!tparse block
!pointer to current string descriptor
```


TPARSE tables

```
: 242      0710 1 %SBTTL 'TPARSE tables';
: 243      0711 1
: 244      0712 1
: 245      0713 1      TPARSE tables to parse /CREATE=() qualifier values.
: 246      0714 1
: 247      0715 1 $INIT_STATE (create_states, create_keys);
: 248      0716 1
: 249      P 0717 1 $STATE (
: 250      P 0718 1      ('BLOCKS', tpa$_exit, value_req, lib$c_opt_blk, lib$gl_tpindex, true),
: 251      P 0719 1      ('GLOBALS', tpa$_exit, value_req, lib$c_opt_gbls, lib$gl_tpindex, true),
: 252      P 0720 1      ('MODULES', tpa$_exit, value_req, lib$c_opt_mods, lib$gl_tpindex, true),
: 253      P 0721 1      ('KEYSIZE', tpa$_exit, value_req, lib$c_opt_ksz, lib$gl_tpindex, true),
: 254      P 0722 1      ('HISTORY', tpa$_exit, value_req, lib$c_opt_luhs, lib$gl_tpindex, true),
: 255      P 0723 1      ('VERSION', tpa$_exit, value_req, lib$c_opt_ver, lib$gl_tpindex, true),
: 256      P 0724 1      (tpa$_lambda, tpa$_exit, syntaxerr, , lib$_badkey),
: 257      0725 1      );
: 258      0726 1
: 259      0727 1
: 260      0728 1 $INIT_STATE (compress_states, compress_keys);
: 261      0729 1
: 262      P 0730 1 $STATE (
: 263      P 0731 1      ('BLOCKS', tpa$_exit, value_req, lib$c_opt_blk, lib$gl_tpindex, true),
: 264      P 0732 1      ('GLOBALS', tpa$_exit, value_req, lib$c_opt_gbls, lib$gl_tpindex, true),
: 265      P 0733 1      ('MODULES', tpa$_exit, value_req, lib$c_opt_mods, lib$gl_tpindex, true),
: 266      P 0734 1      ('KEYSIZE', tpa$_exit, value_req, lib$c_opt_ksz, lib$gl_tpindex, true),
: 267      P 0735 1      ('HISTORY', tpa$_exit, value_req, lib$c_opt_luhs, lib$gl_tpindex, true),
: 268      P 0736 1      ('VERSION', tpa$_exit, value_req, lib$c_opt_ver, lib$gl_tpindex, true),
: 269      P 0737 1      ('KEEP', tpa$_exit, value_req, 1^lib$c_opt_keep, lib$gl_cre8flags, false),
: 270      P 0738 1      ('REDUCE', tpa$_exit, value_req, 1^lib$c_opt_dcx, lib$gl_cre8flags, false),
: 271      P 0739 1      (tpa$_lambda, tpa$_exit, syntaxerr, , lib$_badkey),
: 272      0740 1      );
: 273      0741 1
: 274      0742 1      TPARSE tables for /DATA qualifier options
: 275      0743 1
: 276      0744 1 $INIT_STATE (data_states, data_keys);
: 277      0745 1
: 278      P 0746 1 $STATE (
: 279      P 0747 1      ('REDUCE', tpa$_exit, value_req, 1^lib$c_opt_dcx, lib$gl_cre8flags, false),
: 280      P 0748 1      ('EXPAND', tpa$_exit, value_req, , false),
: 281      P 0749 1      (tpa$_lambda, tpa$_exit, syntaxerr, , lib$_badkey),
: 282      0750 1      );
```


LIB_GET_COMMAND

```
284 0751 1 ZSBTTL 'LIB_GET_COMMAND';
285 0752 1
286 0753 1 GLOBAL ROUTINE lib_get_command (arglist) =
287 0754 2 BEGIN
288 0755 2
289 0756 2 ++
290 0757 2 This routine initializes the CLI result parser and then re-calls it for the
291 0758 2 processing of each command.
292 0759 2
293 0760 2 Inputs:
294 0761 2
295 0762 2 arglist pointer to the argument list that invoked the image
296 0763 2
297 0764 2 Outputs:
298 0765 2
299 0766 2 the command is parsed, data structures filled in.
300 0767 2
301 0768 2 --
302 0769 2 MAP
303 0770 2 arglist : REF BBLOCK;
304 0771 2 LOCAL
305 0772 2 status;
306 0773 2
307 0774 2 lastfdb = lib$gl_inplst; !Init the last FDB pointer
308 0775 2 prevfdb = lib$gl_inplst; ! and the prev. fdb pointer
309 0776 2 lib$gl_inplst = 0; !Init input FDB listhead
310 0777 2
311 0778 2 ! Initialize the library type as "unknown" but set the default file
312 0779 2 extensions as if the library type is "object", which will be the
313 0780 2 default if no other mechanism changes it:
314 0781 2
315 0782 2 set_lib_type (lbr$c_typ_unk, lib_obj_defext);
316 0783 2
317 0784 2
318 0785 2 Initialize the name list queue headers
319 0786 2
320 0787 2 lib$gl_modlist [0] = lib$gl_modlist;
321 0788 2 lib$gl_modlist [1] = lib$gl_modlist;
322 0789 2 lib$gl_modxtrl [0] = lib$gl_modxtrl;
323 0790 2 lib$gl_modxtrl [1] = lib$gl_modxtrl;
324 0791 2 lib$gl_modupdl [0] = lib$gl_modupdl;
325 0792 2 lib$gl_modupdl [1] = lib$gl_modupdl;
326 0793 2 lib$gl_objsyrl [0] = lib$gl_objsyrl;
327 0794 2 lib$gl_objsyrl [1] = lib$gl_objsyrl;
328 0795 2 lib$gl_delmodl [0] = lib$gl_delmodl;
329 0796 2 lib$gl_delmodl [1] = lib$gl_delmodl;
330 0797 2
331 0798 2
332 0799 2 Loop through most qualifiers, setting the appropriate bit
333 0800 2
334 0801 2 incr i to qualtabsiz - 1 do
335 0802 2 if (lib$gl_ctlmsk[0,.bit_table[i],1,0] = cli$present( .qual_table[i] ))
336 0803 2 then
337 0804 2
338 0805 2 If an address of a routine is supplied, call it.
339 0806 2
340 0807 2 if .call_table[i] neq 0
```

```
341 0808 2      then
342 0809      (.call_table[i])();
343 0810
344 0811 2      if .lib$gl_ctlmsk[lib$v_squeeze]
345 0812 2      then
346 0813 2      setsqueeze()
347 0814 2      else
348 0815 2      clearsqueeze();
349 0816
350 0817 2      if cli$present(sd_width)
351 0818 2      then
352 0819 2      setlistwidth();
353 0820
354 0821 2      :
355 0822 2      : Get library file name
356 0823 2      :
357 0824 2      cli$get_value(sd_p1, token_desc);
358 0825 2      input1file();
359 0826
360 0827 2      :
361 0828 2      : Get output file name
362 0829 2      :
363 0830 2      cli$get_value(sd_output, token_desc);
364 0831 2      outputfile();
365 0832
366 0833 2      filesnotfound = 0;
367 0834
368 0835 2      IF NOT (.lib$gl_ctlmsk [lib$v_compress]
369 0836 2      OR .lib$gl_ctlmsk [lib$v_data]
370 0837 2      OR .lib$gl_ctlmsk [lib$v_extract]
371 0838 2      OR .lib$gl_ctlmsk [lib$v_cross] )
372 0839 2      THEN
373 0840 2      WHILE cli$get_value(sd_p2, token_desc) DO
374 0841 2      BEGIN
375 0842 2      lib$gl_ctlmsk [lib$v_selective] = false;
376 0843 2      if cli$present(sd_modules)
377 0844 2      then
378 0845 2      setmodulename();
379 0846 2      input2file(token_desc);
380 0847 2      IF .lib$gl_ctlmsk [lib$v_selective]
381 0848 2      THEN lastfdb [fdb$v_setsel] = true;
382 0849 2      END;
383 0850
384 0851 2      IF .lib$gl_inplist EQL 0
385 0852 2      AND .filesnotfound NEQ 0
386 0853 2      THEN IF .lib$gl_ctlmsk [lib$v_create]
387 0854 2      THEN RETURN false
388 0855 2      ELSE IF NOT .lib$gl_ctlmsk [lib$v_delete]
389 0856 2      AND NOT .lib$gl_ctlmsk [lib$v_extract]
390 0857 2      AND NOT .lib$gl_ctlmsk [lib$v_list]
391 0858 2      AND NOT .lib$gl_ctlmsk [lib$v_remove]
392 0859 2      AND NOT .lib$gl_ctlmsk [lib$v_data]
393 0860 2      AND NOT .lib$gl_ctlmsk [lib$v_compress]
394 0861 2      AND NOT .lib$gl_ctlmsk [lib$v_cross]
395 0862 2      THEN RETURN false;
396 0863
397 0864 2      IF .lib$gl_inplist NEQ 0
```

!Unless compress
!or data
!or extract
!or cross ref

!Clear selective bit

!If selective search was seen

!If all files specified
!were not found
!If creating
!then nothing to do
!otherwise, if no other function selected

! then nothing to do

!If input files are present


```
398 0865 2 AND NOT .lib$gl_ctlmsk [lib$v_insert] ! and did not say insert or replace
399 0866 2 THEN lib$gl_ctlmsk [lib$v_replace] = lib$gl_ctlmsk [lib$v_insert] = true; ! then make sure this is a r
400 0867 2
401 0868 2 ! Terminate parse
402 0869 2
403 0870 2 CH$MOVE (dsc$sc_s_bln, def_lib_extn, lib$gl_libfdb [fdb$defext]);
404 0871 2 IF .lib$gl_ctlmsk [lib$v_insert] OR .lib$gl_ctlmsk [lib$v_delete] ! If insert, remove
405 0872 2 OR .lib$gl_ctlmsk [lib$v_remove] ! or delete
406 0873 2 THEN allocate_fdb (lib$gl_tmpfdb); ! Allocate FDB in case
407 0874 2 ! old format library
408 0875 2 IF .lib$gl_creflags EQL 0 ! If /CROSS=NONE
409 0876 2 THEN lib$gl_ctlmsk [lib$v_cross] = false; ! then disable it
410 0877 2 RETURN true
411 0878 1 END;
```

```
.TITLE LIB_GETCMD
.IDENT \V04-000\

.PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1

00000 :TPASKEYSTO
      U.2: .BLKB 0
53 4B 43 4F 4C 42 00000 :TPASKEYST
      U.4: .ASCII \BLOCKS\
      FF 00006 .BYTE -1
00007 :TPASKEYSTO
      U.12: .BLKB 0
53 4C 41 42 4F 4C 47 00007 :TPASKEYST
      U.14: .ASCII \GLOBALS\
      FF 0000E .BYTE -1
0000F :TPASKEYSTO
      U.22: .BLKB 0
53 45 4C 55 44 4F 4D 0000F :TPASKEYST
      U.24: .ASCII \MODULES\
      FF 00016 .BYTE -1
00017 :TPASKEYSTO
      U.32: .BLKB 0
45 5A 49 53 59 45 4B 00017 :TPASKEYST
      U.34: .ASCII \KEYSIZE\
      FF 0001E .BYTE -1
0001F :TPASKEYSTO
      U.42: .BLKB 0
59 52 4F 54 53 49 48 0001F :TPASKEYST
      U.44: .ASCII \HISTORY\
      FF 00026 .BYTE -1
00027 :TPASKEYSTO
      U.52: .BLKB 0
4E 4F 49 53 52 45 56 00027 :TPASKEYST
      U.54: .ASCII \VERSION\
      FF 0002E .BYTE -1
      FF 0002F :TPASKEYFILL
      U.67: .BYTE -1
00030 :TPASKEYSTO
      U.69: .BLKB 0
53 4B 43 4F 4C 42 00030 :TPASKEYST
      U.71: .ASCII \BLOCKS\
```

```
FF 00036 ;TPASKEYSTO .BYTE -1 ;
00037 U.79: .BLKB 0 ;
53 4C 41 42 4F 4C 47 00037 ;TPASKEYST U.81: .ASCII \GLOBALS\ ;
FF 0003E ;TPASKEYSTO .BYTE -1 ;
0003F U.89: .BLKB 0 ;
53 45 4C 55 44 4F 4D 0003F ;TPASKEYST U.91: .ASCII \MODULES\ ;
FF 00046 ;TPASKEYSTO .BYTE -1 ;
00047 U.99: .BLKB 0 ;
45 5A 49 53 59 45 4B 00047 ;TPASKEYST U.101: .ASCII \KEYSIZE\ ;
FF 0004E ;TPASKEYSTO .BYTE -1 ;
0004F U.109: .BLKB 0 ;
59 52 4F 54 53 49 48 0004F ;TPASKEYST U.111: .ASCII \HISTORY\ ;
FF 00056 ;TPASKEYSTO .BYTE -1 ;
00057 U.119: .BLKB 0 ;
4E 4F 49 53 52 45 56 00057 ;TPASKEYST U.121: .ASCII \VERSION\ ;
FF 0005E ;TPASKEYSTO .BYTE -1 ;
0005F U.129: .BLKB 0 ;
50 45 45 4B 0005F ;TPASKEYST U.131: .ASCII \KEEP\ ;
FF 00063 ;TPASKEYSTO .BYTE -1 ;
00064 U.139: .BLKB 0 ;
45 43 55 44 45 52 00064 ;TPASKEYST U.141: .ASCII \REDUCE\ ;
FF 0006A ;TPASKEYSTO .BYTE -1 ;
FF 0006B ;TPASKEYFILL U.154: .BYTE -1 ;
0006C ;TPASKEYSTO U.156: .BLKB 0 ;
45 43 55 44 45 52 0006C ;TPASKEYST U.158: .ASCII \REDUCE\ ;
FF 00072 ;TPASKEYSTO .BYTE -1 ;
00073 U.166: .BLKB 0 ;
44 4E 41 50 58 45 00073 ;TPASKEYST U.168: .ASCII \EXPAND\ ;
FF 00079 ;TPASKEYSTO .BYTE -1 ;
FF 0007A ;TPASKEYFILL U.179: .BYTE -1 ;
.PSECT _LIB$STATES,NOWRT, SHR, PIC,1
00000 CREATE_STATES::
F300 00000 ;TPASTYPE .BLKB 0
U.5: .WORD -3328 ;
```


| | | | |
|-----------|-------|-------------|----------------------------|
| 01 | 00002 | :TPASFLAGS2 | |
| | | U.6: .BYTE | 1 |
| 00000001 | 00003 | :TPASPARAM | |
| | | U.7: .LONG | 1 |
| 00000000V | 00007 | :TPASACTION | |
| | | U.8: .LONG | <<VALUE_REQ-U.8>-4> |
| 00000000* | 0000B | :TPASADDR | |
| | | U.9: .LONG | <<LIB\$GL_TPINDEX-U.9>-4> |
| 00000000 | 0000F | :TPASMASK | |
| | | U.10: .LONG | 0 |
| FFFF | 00013 | :TPASTARGET | |
| | | U.11: .WORD | -1 |
| F301 | 00015 | :TPASTYPE | |
| | | U.15: .WORD | -3327 |
| 01 | 00017 | :TPASFLAGS2 | |
| | | U.16: .BYTE | 1 |
| 00000001 | 00018 | :TPASPARAM | |
| | | U.17: .LONG | 1 |
| 00000000V | 0001C | :TPASACTION | |
| | | U.18: .LONG | <<VALUE_REQ-U.18>-4> |
| 00000000* | 00020 | :TPASADDR | |
| | | U.19: .LONG | <<LIB\$GL_TPINDEX-U.19>-4> |
| 00000001 | 00024 | :TPASMASK | |
| | | U.20: .LONG | 1 |
| FFFF | 00028 | :TPASTARGET | |
| | | U.21: .WORD | -1 |
| F302 | 0002A | :TPASTYPE | |
| | | U.25: .WORD | -3326 |
| 01 | 0002C | :TPASFLAGS2 | |
| | | U.26: .BYTE | 1 |
| 00000001 | 0002D | :TPASPARAM | |
| | | U.27: .LONG | 1 |
| 00000000V | 00031 | :TPASACTION | |
| | | U.28: .LONG | <<VALUE_REQ-U.28>-4> |
| 00000000* | 00035 | :TPASADDR | |
| | | U.29: .LONG | <<LIB\$GL_TPINDEX-U.29>-4> |
| 00000002 | 00039 | :TPASMASK | |
| | | U.30: .LONG | 2 |
| FFFF | 0003D | :TPASTARGET | |
| | | U.31: .WORD | -1 |
| F303 | 0003F | :TPASTYPE | |
| | | U.35: .WORD | -3325 |
| 01 | 00041 | :TPASFLAGS2 | |
| | | U.36: .BYTE | 1 |
| 00000001 | 00042 | :TPASPARAM | |
| | | U.37: .LONG | 1 |
| 00000000V | 00046 | :TPASACTION | |
| | | U.38: .LONG | <<VALUE_REQ-U.38>-4> |
| 00000000* | 0004A | :TPASADDR | |
| | | U.39: .LONG | <<LIB\$GL_TPINDEX-U.39>-4> |
| 00000003 | 0004E | :TPASMASK | |
| | | U.40: .LONG | 3 |
| FFFF | 00052 | :TPASTARGET | |
| | | U.41: .WORD | -1 |
| F304 | 00054 | :TPASTYPE | |
| | | U.45: .WORD | -3324 |
| 01 | 00056 | :TPASFLAGS2 | |

| | | | | |
|-----------|-------|------------------|----------------------------|---|
| 00000001 | 00057 | U.46: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| 00000000V | 00058 | U.47: .LONG | 1 | : |
| | | :TPASACTION | | : |
| 00000000* | 0005F | U.48: .LONG | <<VALUE_REQ-U.48>-4> | : |
| | | :TPASADDR | | : |
| 00000004 | 00063 | U.49: .LONG | <<LIB\$GL_TPINDEX-U.49>-4> | : |
| | | :TPASMASK | | : |
| FFFF | 00067 | U.50: .LONG | 4 | : |
| | | :TPASTARGET | | : |
| F305 | 00069 | U.51: .WORD | -1 | : |
| | | :TPASTYPE | | : |
| 01 | 0006B | U.55: .WORD | -3323 | : |
| | | :TPASFLAGS2 | | : |
| 00000001 | 0006C | U.56: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| 00000000V | 00070 | U.57: .LONG | 1 | : |
| | | :TPASACTION | | : |
| 00000000* | 00074 | U.58: .LONG | <<VALUE_REQ-U.58>-4> | : |
| | | :TPASADDR | | : |
| 00000005 | 00078 | U.59: .LONG | <<LIB\$GL_TPINDEX-U.59>-4> | : |
| | | :TPASMASK | | : |
| FFFF | 0007C | U.60: .LONG | 5 | : |
| | | :TPASTARGET | | : |
| 97F6 | 0007E | U.61: .WORD | -1 | : |
| | | :TPASTYPE | | : |
| 01 | 00080 | U.62: .WORD | -26634 | : |
| | | :TPASFLAGS2 | | : |
| 0086110C | 00081 | U.63: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| 00000000V | 00085 | U.64: .LONG | 8786188 | : |
| | | :TPASACTION | | : |
| FFFF | 00089 | U.65: .LONG | <<SYNTAXERR-U.65>-4> | : |
| | | :TPASTARGET | | : |
| | | U.66: .WORD | -1 | : |
| | 0008B | .BLKB | 1 | : |
| | 0008C | COMPRESS_STATES: | | : |
| | | .BLKB | 0 | : |
| F300 | 0008C | :TPASTYPE | | : |
| | | U.72: .WORD | -3328 | : |
| 01 | 0008E | :TPASFLAGS2 | | : |
| | | U.73: .BYTE | 1 | : |
| 00000001 | 0008F | :TPASPARAM | | : |
| | | U.74: .LONG | 1 | : |
| 00000000V | 00093 | :TPASACTION | | : |
| | | U.75: .LONG | <<VALUE_REQ-U.75>-4> | : |
| 00000000* | 00097 | :TPASADDR | | : |
| | | U.76: .LONG | <<LIB\$GL_TPINDEX-U.76>-4> | : |
| 00000000 | 0009B | :TPASMASK | | : |
| | | U.77: .LONG | 0 | : |
| FFFF | 0009F | :TPASTARGET | | : |
| | | U.78: .WORD | -1 | : |
| F301 | 000A1 | :TPASTYPE | | : |
| | | U.82: .WORD | -3327 | : |
| 01 | 000A3 | :TPASFLAGS2 | | : |
| | | U.83: .BYTE | 1 | : |
| 00000001 | 000A4 | :TPASPARAM | | : |

| | | | | |
|-----------|-------|--------------|-----------------------------|---|
| 00000000V | 000A8 | U.84: .LONG | 1 | : |
| | | :TPASACTION | | : |
| 00000000* | 000AC | U.85: .LONG | <<VALUE_REQ-U.85>-4> | : |
| | | :TPASADDR | | : |
| 00000001 | 000B0 | U.86: .LONG | <<LIB\$GL_TPINDEX-U.86>-4> | : |
| | | :TPASMASK | | : |
| FFFF | 000B4 | U.87: .LONG | 1 | : |
| | | :TPASTARGET | | : |
| F302 | 000B6 | U.88: .WORD | -1 | : |
| | | :TPASTYPE | | : |
| 01 | 000B8 | U.92: .WORD | -3326 | : |
| | | :TPASFLAGS2 | | : |
| 00000001 | 000B9 | U.93: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| 00000000V | 000BD | U.94: .LONG | 1 | : |
| | | :TPASACTION | | : |
| 00000000* | 000C1 | U.95: .LONG | <<VALUE_REQ-U.95>-4> | : |
| | | :TPASADDR | | : |
| 00000002 | 000C5 | U.96: .LONG | <<LIB\$GL_TPINDEX-U.96>-4> | : |
| | | :TPASMASK | | : |
| FFFF | 000C9 | U.97: .LONG | 2 | : |
| | | :TPASTARGET | | : |
| F303 | 000CB | U.98: .WORD | -1 | : |
| | | :TPASTYPE | | : |
| 01 | 000CD | U.102: .WORD | -3325 | : |
| | | :TPASFLAGS2 | | : |
| 00000001 | 000CE | U.103: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| 00000000V | 000D2 | U.104: .LONG | 1 | : |
| | | :TPASACTION | | : |
| 00000000* | 000D6 | U.105: .LONG | <<VALUE_REQ-U.105>-4> | : |
| | | :TPASADDR | | : |
| 00000003 | 000DA | U.106: .LONG | <<LIB\$GL_TPINDEX-U.106>-4> | : |
| | | :TPASMASK | | : |
| FFFF | 000DE | U.107: .LONG | 3 | : |
| | | :TPASTARGET | | : |
| F304 | 000E0 | U.108: .WORD | -1 | : |
| | | :TPASTYPE | | : |
| 01 | 000E2 | U.112: .WORD | -3324 | : |
| | | :TPASFLAGS2 | | : |
| 00000001 | 000E3 | U.113: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| 00000000V | 000E7 | U.114: .LONG | 1 | : |
| | | :TPASACTION | | : |
| 00000000* | 000EB | U.115: .LONG | <<VALUE_REQ-U.115>-4> | : |
| | | :TPASADDR | | : |
| 00000004 | 000EF | U.116: .LONG | <<LIB\$GL_TPINDEX-U.116>-4> | : |
| | | :TPASMASK | | : |
| FFFF | 000F3 | U.117: .LONG | 4 | : |
| | | :TPASTARGET | | : |
| F305 | 000F5 | U.118: .WORD | -1 | : |
| | | :TPASTYPE | | : |
| 01 | 000F7 | U.122: .WORD | -3323 | : |
| | | :TPASFLAGS2 | | : |
| 00000001 | 000F8 | U.123: .BYTE | 1 | : |
| | | :TPASPARAM | | : |
| | | U.124: .LONG | 1 | : |

| | | | | |
|-----------|-------|----------------|-------------------------------|---|
| 00000000V | 000FC | :TPASACTION | | |
| | | U.125: .LONG | <<VALUE_REQ-U.125>-4> | : |
| 00000000* | 00100 | :TPASADDR | | : |
| | | U.126: .LONG | <<LIB\$GL_TPINDEX-U.126>-4> | : |
| 00000005 | 00104 | :TPASMASK | | : |
| | | U.127: .LONG | 5 | : |
| FFFF | 00108 | :TPASTARGET | | : |
| | | U.128: .WORD | -1 | : |
| F306 | 0010A | :TPASTYPE | | : |
| | | U.132: .WORD | -3322 | : |
| 01 | 0010C | :TPASFLAGS2 | | : |
| | | U.133: .BYTE | 1 | : |
| 00000000 | 0010D | :TPASPARAM | | : |
| | | U.134: .LONG | 0 | : |
| 00000000V | 00111 | :TPASACTION | | : |
| | | U.135: .LONG | <<VALUE_REQ-U.135>-4> | : |
| 00000000* | 00115 | :TPASADDR | | : |
| | | U.136: .LONG | <<LIB\$GL_CRE8FLAGS-U.136>-4> | : |
| 00000040 | 00119 | :TPASMASK | | : |
| | | U.137: .LONG | 64 | : |
| FFFF | 0011D | :TPASTARGET | | : |
| | | U.138: .WORD | -1 | : |
| F307 | 0011F | :TPASTYPE | | : |
| | | U.142: .WORD | -3321 | : |
| 01 | 00121 | :TPASFLAGS2 | | : |
| | | U.143: .BYTE | 1 | : |
| 00000000 | 00122 | :TPASPARAM | | : |
| | | U.144: .LONG | 0 | : |
| 00000000V | 00126 | :TPASACTION | | : |
| | | U.145: .LONG | <<VALUE_REQ-U.145>-4> | : |
| 00000000* | 0012A | :TPASADDR | | : |
| | | U.146: .LONG | <<LIB\$GL_CRE8FLAGS-U.146>-4> | : |
| 00000080 | 0012E | :TPASMASK | | : |
| | | U.147: .LONG | 128 | : |
| FFFF | 00132 | :TPASTARGET | | : |
| | | U.148: .WORD | -1 | : |
| 97F6 | 00134 | :TPASTYPE | | : |
| | | U.149: .WORD | -26634 | : |
| 01 | 00136 | :TPASFLAGS2 | | : |
| | | U.150: .BYTE | 1 | : |
| 0086110C | 00137 | :TPASPARAM | | : |
| | | U.151: .LONG | 8786188 | : |
| 00000000V | 0013B | :TPASACTION | | : |
| | | U.152: .LONG | <<SYNTAXERR-U.152>-4> | : |
| FFFF | 0013F | :TPASTARGET | | : |
| | | U.153: .WORD | -1 | : |
| | 00141 | : .BLKB | 3 | : |
| | 00144 | :DATA_STATES:: | | : |
| | | : .BLKB | 0 | : |
| F300 | 00144 | :TPASTYPE | | : |
| | | U.159: .WORD | -3328 | : |
| 01 | 00146 | :TPASFLAGS2 | | : |
| | | U.160: .BYTE | 1 | : |
| 00000000 | 00147 | :TPASPARAM | | : |
| | | U.161: .LONG | 0 | : |
| 00000000V | 0014B | :TPASACTION | | : |
| | | U.162: .LONG | <<VALUE_REQ-U.162>-4> | : |


```
00000000* 0014F :TPASADDR
              U.163: .LONG    <<LIB$GL_CRE8FLAGS-U.163>-4>
00000080 00153 :TPASMASK
              U.164: .LONG    128
      FFFF 00157 :TPASTARGET
              U.165: .WORD    -1
      9301 00159 :TPASTYPE
              U.169: .WORD    -27903
      01 0015B :TPASFLAGS2
              U.170: .BYTE    1
00000000 0015C :TPASPARAM
              U.171: .LONG    0
00000000V 00160 :TPASACTION
              U.172: .LONG    <<VALUE_REQ-U.172>-4>
      FFFF 00164 :TPASTARGET
              U.173: .WORD    -1
      97F6 00166 :TPASTYPE
              U.174: .WORD    -26634
      01 00168 :TPASFLAGS2
              U.175: .BYTE    1
0086110C 00169 :TPASPARAM
              U.176: .LONG    8786188
00000000V 0016D :TPASACTION
              U.177: .LONG    <<SYNTAXERR-U.177>-4>
      FFFF 00171 :TPASTARGET
              U.178: .WORD    -1

              .PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1

      00000 CREATE_KEYS::
              .BLKB 0
      00000 :TPASKEY0
              U.1: .BLKB 0
0000* 00000 :TPASKEY
              U.3: .WORD    <U.2-U.1>
0000* 00002 :TPASKEY
              U.13: .WORD    <U.12-U.1>
0000* 00004 :TPASKEY
              U.23: .WORD    <U.22-U.1>
0000* 00006 :TPASKEY
              U.33: .WORD    <U.32-U.1>
0000* 00008 :TPASKEY
              U.43: .WORD    <U.42-U.1>
0000* 0000A :TPASKEY
              U.53: .WORD    <U.52-U.1>
      0000C COMPRESS_KEYS::
              .BLKB 0
      0000C :TPASKEY0
              U.68: .BLKB 0
0000* 0000C :TPASKEY
              U.70: .WORD    <U.69-U.68>
0000* 0000E :TPASKEY
              U.80: .WORD    <U.79-U.68>
0000* 00010 :TPASKEY
              U.90: .WORD    <U.89-U.68>
0000* 00012 :TPASKEY
              U.100: .WORD    <U.99-U.68>
```

0000* 00014 :TPASKEY
U.110: .WORD <U.109-U.68>
0000* 00016 :TPASKEY
U.120: .WORD <U.119-U.68>
0000* 00018 :TPASKEY
U.130: .WORD <U.129-U.68>
0000* 0001A :TPASKEY
U.140: .WORD <U.139-U.68>
0001C DATA_KEYS::
.BLKB 0
0001C :TPASKEY0
U.155: .BLKB 0
0000* 0001C :TPASKEY
U.157: .WORD <U.156-U.155>
0000* 0001E :TPASKEY
U.167: .WORD <U.166-U.155>

.PSECT \$SPLITS,NOWRT,NOEXE,2

53 45 4C 55 44 4F 4D 00000 P.AAB: .ASCII \MODULES\
00007 .BLKB 1
00000007 00008 P.AAA: .LONG 7
00000000 0000C .ADDRESS P.AAB
45 52 4F 46 45 42 00010 P.AAD: .ASCII \BEFORE\
00016 .BLKB 2
00000006 00018 P.AAC: .LONG 6
00000000 0001C .ADDRESS P.AAD
53 53 45 52 50 4D 4F 43 00020 P.AAF: .ASCII \COMPRESS\
00000008 00028 P.AAE: .LONG 8
00000000 0002C .ADDRESS P.AAF
45 54 41 45 52 43 00030 P.AAH: .ASCII \CREATE\
00036 .BLKB 2
00000006 00038 P.AAG: .LONG
00000000 0003C .ADDRESS P.AAH
45 43 4E 45 52 45 46 45 52 5F 53 53 4F 52 43 00040 P.AAJ: .ASCII \CROSS_REFERENCE\
0004F .BLKB 1
0000000F 00050 P.AAI: .LONG 15
00000000 00054 .ADDRESS P.AAJ
41 54 41 44 00058 P.AAL: .ASCII \DATA\
00000004 0005C P.AAK: .LONG 4
00000000 00060 .ADDRESS P.AAL
45 54 45 4C 45 44 00064 P.AAN: .ASCII \DELETE\
0006A .BLKB 2
00000006 0006C P.AAM: .LONG 6
00000000 00070 .ADDRESS P.AAN
54 43 41 52 54 58 45 00074 P.AAP: .ASCII \EXTRACT\
0007B .BLKB 1
00000007 0007C P.AAO: .LONG 7
00000000 00080 .ADDRESS P.AAP
4C 4C 55 46 00084 P.AAR: .ASCII \FULL\
00000004 00088 P.AAQ: .LONG 4
00000000 0008C .ADDRESS P.AAR
53 4C 41 42 4F 4C 47 00090 P.AAT: .ASCII \GLOBALS\
00097 .BLKB 1
00000007 00098 P.AAS: .LONG 7
00000000 0009C .ADDRESS P.AAT
50 4C 45 48 000A0 P.AAV: .ASCII \HELP\

| | | | | | | | | | | |
|----|----|----|----|-------------------------------------|-------|--------|----------|--------------------|--|--|
| | | | | 00000004 | 000A4 | P.AAU: | .LONG | 4 | | |
| | | | | 00000000 | 000A8 | | .ADDRESS | P.AAV | | |
| 59 | 52 | 4F | 54 | 53 49 48 | 000AC | P.AAX: | .ASCII | \HISTORY\ | | |
| | | | | | 000B3 | | .BLKB | 1 | | |
| | | | | 00000007 | 000B4 | P.AAW: | .LONG | 7 | | |
| | | | | 00000000 | 000B8 | | .ADDRESS | P.AAX | | |
| 54 | 52 | 45 | 53 | 4E 49 | 000BC | P.AAZ: | .ASCII | \INSERT\ | | |
| | | | | | 000C2 | | .BLKB | 2 | | |
| | | | | 00000006 | 000C4 | P.AAY: | .LONG | 6 | | |
| | | | | 00000000 | 000C8 | | .ADDRESS | P.AAZ | | |
| | | | 54 | 53 49 4C | 000CC | P.ABB: | .ASCII | \LIST\ | | |
| | | | | 00000004 | 000D0 | P.ABA: | .LONG | 4 | | |
| | | | | 00000000 | 000D4 | | .ADDRESS | P.ABB | | |
| | | | | 47 4F 4C | 000D8 | P.ABD: | .ASCII | \LOG\ | | |
| | | | | | 000DB | | .BLKB | 1 | | |
| | | | | 00000003 | 000DC | P.ABC: | .LONG | 3 | | |
| | | | | 00000000 | 000E0 | | .ADDRESS | P.ABD | | |
| | | | 4F | 52 43 41 4D | 000E4 | P.ABF: | .ASCII | \MACRO\ | | |
| | | | | | 000E9 | | .BLKB | 3 | | |
| | | | | 00000005 | 000EC | P.ABE: | .LONG | 5 | | |
| | | | | 00000000 | 000F0 | | .ADDRESS | P.ABF | | |
| | | | 53 | 45 4D 41 4E | 000F4 | P.ABH: | .ASCII | \NAMES\ | | |
| | | | | | 000F9 | | .BLKB | 3 | | |
| | | | | 00000005 | 000FC | P.ABG: | .LONG | 5 | | |
| | | | | 00000000 | 00100 | | .ADDRESS | P.ABH | | |
| 54 | 43 | 45 | 4A | 42 4F | 00104 | P.ABJ: | .ASCII | \OBJECT\ | | |
| | | | | | 0010A | | .BLKB | 2 | | |
| | | | | 00000006 | 0010C | P.ABI: | .LONG | 6 | | |
| | | | | 00000000 | 00110 | | .ADDRESS | P.ABJ | | |
| | | | 59 | 4C 4E 4F | 00114 | P.ABL: | .ASCII | \ONLY\ | | |
| | | | | 00000004 | 00118 | P.ABK: | .LONG | 4 | | |
| | | | | 00000000 | 0011C | | .ADDRESS | P.ABL | | |
| 54 | 55 | 50 | 54 | 55 4F | 00120 | P.ABN: | .ASCII | \OUTPUT\ | | |
| | | | | | 00126 | | .BLKB | 2 | | |
| | | | | 00000006 | 00128 | P.ABM: | .LONG | 6 | | |
| | | | | 00000000 | 0012C | | .ADDRESS | P.ABN | | |
| 45 | 56 | 4F | 4D | 45 52 | 00130 | P.ABP: | .ASCII | \REMOVE\ | | |
| | | | | | 00136 | | .BLKB | 2 | | |
| | | | | 00000006 | 00138 | P.ABO: | .LONG | 6 | | |
| | | | | 00000000 | 0013C | | .ADDRESS | P.ABP | | |
| 45 | 43 | 41 | 4C | 50 45 52 | 00140 | P.ABR: | .ASCII | \REPLACE\ | | |
| | | | | | 00147 | | .BLKB | 1 | | |
| | | | | 00000007 | 00148 | P.ABQ: | .LONG | 7 | | |
| | | | | 00000000 | 0014C | | .ADDRESS | P.ABR | | |
| 43 | 52 | 41 | 45 | 53 5F 45 56 49 54 43 45 4C 45 53 48 | 00150 | P.ABT: | .ASCII | \SELECTIVE_SEARCH\ | | |
| | | | | | 0015F | | | | | |
| | | | | 00000010 | 00160 | P.ABS: | .LONG | 16 | | |
| | | | | 00000000 | 00164 | | .ADDRESS | P.ABT | | |
| | | | 45 | 52 41 48 53 | 00168 | P.ABV: | .ASCII | \SHARE\ | | |
| | | | | | 0016D | | .BLKB | 3 | | |
| | | | | 00000005 | 00170 | P.ABU: | .LONG | 5 | | |
| | | | | 00000000 | 00174 | | .ADDRESS | P.ABV | | |
| | | | 45 | 43 4E 49 53 | 00178 | P.ABX: | .ASCII | \SINCE\ | | |
| | | | | | 0017D | | .BLKB | 3 | | |
| | | | | 00000005 | 00180 | P.ABW: | .LONG | 5 | | |
| | | | | 00000000 | 00184 | | .ADDRESS | P.ABX | | |
| 45 | 5A | 45 | 45 | 55 51 53 | 00188 | P.ABZ: | .ASCII | \SQUEEZE\ | | |


```
00000007 0018F .BLKB 1
00000000 00190 P.ABY: .LONG 7
54 58 45 54 00194 .ADDRESS P.ABZ
00000004 00198 P.ACB: .ASCII \TEXT\
00000000 0019C P.ACA: .LONG 4
48 54 44 49 57 001A0 .ADDRESS P.ACB
001A4 P.ACD: .ASCII \WIDTH\
001A9 .BLKB 3
00000005 001AC P.ACC: .LONG 5
00000000 001B0 .ADDRESS P.ACD
31 50 001B4 P.ACF: .ASCII \P1\
001B6 .BLKB 2
00000002 001B8 P.ACE: .LONG 2
00000000 001BC .ADDRESS P.ACF
32 50 001C0 P.ACH: .ASCII \P2\
001C2 .BLKB 2
00000002 001C4 P.ACG: .LONG 2
00000000 001C8 .ADDRESS P.ACH
00 4C 4F 42 4D 59 53 06 001CC P.ACI: .ASCII <6>\SYMBOL\<0>
00 00 45 55 4C 41 56 05 001D4 P.ACJ: .ASCII <5>\VALUE\<0><0>
00 45 4C 55 44 4F 4D 06 001DC P.ACK: .ASCII <6>\MODULE\<0>
00 00 00 45 4E 4F 4E 04 001E4 P.ACL: .ASCII <3>\ALL\
00 00 00 45 4E 4F 4E 04 001E8 P.ACM: .ASCII <4>\NONE\<0><0><0>
00 3A 54 55 50 54 55 4F 24 53 59 53 001F0 P.ACN: .ASCII \SYSSOUTPUT:\<0>
00 00 4C 4F 42 4D 59 53 001FC P.ACO: .ASCII \SYMBOL\<0><0>
00 00 00 45 55 4C 41 56 00204 P.ACP: .ASCII \VALUE\<0><0><0>
00 00 45 4C 55 44 4F 4D 0020C P.ACQ: .ASCII \MODULE\<0><0>
00 4C 4C 41 00214 P.ACR: .ASCII \ALL\<0>
45 4E 4F 4E 00218 P.ACS: .ASCII \NONE\
```

.PSECT \$OWNS,NOEXE,2

```
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00000 QUAL_TABLE:
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00018 .ADDRESS SD_BEFORE, SD_COMPRESS, SD_CREATE, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00030 SD_CROSS_REFERENCE, SD_DATA, SD_DELETE, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00048 SD_EXTRACT, SD_FULL, SD_GLOBALS, SD_HELP, -
SD_HISTORY, SD_LIST, SD_LOG, SD_MACRO, -
SD_NAMES, SD_OBJECT, SD_ONLY, SD_REMOVE, -
SD_SHARE, SD_SINCE, SD_TEXT, SD_REPLACE, -
SD_INSERT, SD_SQUEEZE
OF 02 16 0B 1D 03 11 10 09 08 23 1C 07 06 20 00060 BIT_TABLE:
13 0A 0D 04 21 05 0C 1A 01 0006F .BYTE 32, 6, 7, 28, 35, 8, 9, 16, 17, 3, 29, -
11, 22, 2, 15, 1, 26, 12, 5, 33, 4, 13, -
10, 19
00000000V 00000000V 00000000V 00000000V 00000000V 00000000V 00078 CALL_TABLE:
00000000V 00090 .ADDRESS BEFORE_DATE, COMPRESSFILE, CREATELIB, -
SELECTCROSREF, DATAREDUCE, DELETEMODULES, -
EXTRACTFILE
00000000 00000000 00094 .LONG 0, 0
00000000V 0009C .ADDRESS SET_HELP_TYPE
00000000 000A0 .LONG 0
00000000V 000A4 .ADDRESS SETLISTFILE
00000000 000A8 .LONG 0
00000000V 000AC .ADDRESS SET_MACRO_TYPE
00000000 000B0 .LONG 0
00000000V 000B4 .ADDRESS SET_OBJECT_TYPE, LISTONLYMODS, -
REMOVESYMBOLS, SET_SHR_TYPE, SINCE_DATE, -
```

```
00000000 00000000 00000000 000CC SET TEXT_TYPE
00000006 000DB CRF_TABLE: .LONG 0, 0, 0
00000000' 000DC .LONG 6
00000000 000E0 .ADDRESS P.ACI
00000000' 000E4 .LONG 0
00000001 000E8 .ADDRESS P.ACJ
00000000' 000EC .LONG 1
00000002 000F0 .ADDRESS P.ACK
00000004 000F4 OPT_TABLE: .LONG 2
00000000' 000F8 .LONG 4
00000000 000FC .ADDRESS P.ACL
00000000' 00100 .LONG 0
00000001 00104 .ADDRESS P.ACM
0000 00108 LIST_DESC: .LONG 1
00 0010A .WORD 0
02 0010B .BYTE 0
00000000 0010C .BYTE 2
00000001 00110 SQUEEZE_FLAG: .LONG 0
00114 DEF_LIB_EXTN: .LONG 1
0011C DEF_FIL_EXTN: .BLKB 8
00124 LASTFDB: .BLKB 8
00128 PREVFDDB: .BLKB 4
0000000B 0012C SYSOUTPUTDESC: .BLKB 4
00000000' 00130 .LONG 11
0000 00134 MODULENAMEDESC: .ADDRESS P.ACN
00 00136 .WORD 0
02 00137 .BYTE 0
00000000 00138 .BYTE 2
0013C CLIWORKPTR: .LONG 0
00140 FILESNOTFOUND: .BLKB 4
0000 00144 TOKEN_DESC: .BLKB 4
00 00146 .WORD 0
02 00147 .BYTE 0
00000000 00148 .BYTE 2
00000006 0014C CRF_BYSYMBOL: .LONG 0
00000000' 00150 .LONG 6
00000005 00154 CRF_BYVALUE: .ADDRESS P.ACO
00000000' 00158 .LONG 5
00000006 0015C CRF_BYMODULE: .ADDRESS P.ACP
00000000' 00160 .LONG 6
00000000 00164 CRF_BYNONE: .ADDRESS P.ACQ
00000000' .LONG 0
```

LIB_GETCMD
V04=000

LIB_GET_COMMAND

K 3
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]GETCMD.B32;1

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```
00000003 00168 ALL_OPTIONS:
                                .LONG 3
00000000' 0016C .ADDRESS P.ACR
00000004 00170 NO_OPTIONS:
                                .LONG 4
00000000' 00174 .ADDRESS P.ACS
00000000 00178 END_OPTIONS:
                                .LONG 0
0017C TPA_BLOCK:
                                .BLKB 36
001A0 TPA_DESC:
                                .BLKB 4
                                .PSECT $GLOBALS,NOEXE,2

00000 LIB$GL_TPINDEX::
                                .BLKB 4
00004 LIB$GL_VALREQ::
                                .BLKB 4
00008 LIB$GL_CREFLAGS::
                                .BLKB 4
```

```
SD_MODULES= P.AAA
SD_BEFORE= P.AAC
SD_COMPRESS= P.AAE
SD_CREATE= P.AAG
SD_CROSS_REFERENCE= P.AAI
SD_DATA= P.AAK
SD_DELETE= P.AAM
SD_EXTRACT= P.AAO
SD_FULL= P.AAQ
SD_GLOBALS= P.AAS
SD_HELP= P.AAU
SD_HISTORY= P.AAW
SD_INSERT= P.AAY
SD_LIST= P.ABA
SD_LOG= P.ABC
SD_MACRO= P.ABE
SD_NAMES= P.ABG
SD_OBJECT= P.ABI
SD_ONLY= P.ABK
SD_OUTPUT= P.ABM
SD_REMOVE= P.ABO
SD_REPLACE= P.ABQ
SD_SELECTIVE_SEARCH= P.ABS
SD_SHARE= P.ABU
SD_SINCE= P.ABW
SD_SQUEEZE= P.ABY
SD_TEXT= P.ACA
SD_WIDTH= P.ACC
SD_P1= P.ACE
SD_P2= P.ACG
.EXTRN LIB$CVT_DTB, CLISGET_VALUE
.EXTRN CLISPRESENT, GETFILNAMDESC
.EXTRN LIB_GET_MEM, LIB$CVT_TIME
.EXTRN LIB$FILE_SCAN, LIB$TPARSE
.EXTRN LIB$LOOKUP_KEY, LIB_FREE_MEM
```



```

. EXTRN LIB$BEFORE DATE
. EXTRN LIB$SINCE DATE, LIB$AL_CREOPTS
. EXTRN LIB$GL_CRE8FLAGS
. EXTRN LIB$GL_LISTWID, LIB$GL_TYPE
. EXTRN LIB$GL_MODLISL, LIB$GL_MODXTRL
. EXTRN LIB$GL_MODUPDL, LIB$GL_OBJSYRML
. EXTRN LIB$GL_DELMODL, LIB$GL_CTLMSK
. EXTRN LIB$GL_LIBFDB, LIB$GL_OUTFDB
. EXTRN LIB$GL_LISFDB, LIB$GL_TMPFDB
. EXTRN LIB$GL_INPLIST, LIB_MAC_DEFEKT
. EXTRN LIB_OBJ_DEFEKT, LIB_HLP_DEFEKT
. EXTRN LIB_TXT_DEFEKT, LIB_SHR_DEFEKT

```

.PSECT \$CODES,NOWRT,2

```
.ENTRY LIB GET COMMAND, Save R2,R3,R4,R5,R6,R7,R8,-; 0753
      R9,R10,R11
```

```

MOVAB LIB$GL_OBJSYRML, R11
MOVAB LIB$GL_MODUPDL, R10
MOVAB LIB$GL_MODXTRL, R9
MOVAB LIB$GL_MODLISL, R8
MOVAB TOKEN_DESC, R7
MOVAB LIB$GL_CTLMSK, R6
MOVAB LIB$GL-INPLIST, LASTFDB
MOVAB LIB$GL-INPLIST, PREVFD
CLRL LIB$GL-INPLIST
PUSHAB LIB_OBJ_DEFE

```

| | | |
|-------|--------------------------------------|------|
| CALLS | #2, SET LIB TYPE | |
| MOVAB | LIB\$GL_MODLISL, LIB\$GL_MODLISL | 0787 |
| MOVAB | LIB\$GL_MODLISL, LIB\$GL_MODLISL+4 | 0788 |
| MOVAB | LIB\$GL_MODXTRL, LIB\$GL_MODXTRL | 0789 |
| MOVAB | LIB\$GL_MODXTRL, LIB\$GL_MODXTRL+4 | 0790 |
| MOVAB | LIB\$GL_MODUPDL, LIB\$GL_MODUPDL | 0791 |
| MOVAB | LIB\$GL_MODUPDL, LIB\$GL_MODUPDL+4 | 0792 |
| MOVAB | LIB\$GL_OBJSYRML, LIB\$GL_OBJSYRML | 0793 |
| MOVAB | LIB\$GL_OBJSYRML, LIB\$GL_OBJSYRML+4 | 0794 |
| MOVAB | LIB\$GL_DELMODL, LIB\$GL_DELMODL | 0795 |
| MOVAB | LIB\$GL_DELMODL, LIB\$GL_DELMODL+4 | 0796 |
| CLRL | I | 0801 |
| PUSHL | QUAL TABLE[I] | 0802 |

| | | |
|--------|----------------------------|------|
| CALLS | #1, CLISPRESNT | 0802 |
| MOVZBL | BIT_TABLE[1], R3 | |
| MOVL | R0, R1 | |
| INSV | R1, R3, #1, LIB\$GL_CTLMSK | |
| BLBC | R1, 2\$ | |
| MOVL | CALL_TABLE[1], R0 | 0807 |
| BEQL | 2\$ | |
| CALLS | #0, (R0) | 0809 |
| AOBLEQ | #2\$, 1, 1\$ | 0802 |
| BBC | #3, LIB\$GL_CTLMSK+2, 3\$ | 0811 |
| CALLS | #0, SETSQUEEZE | 0813 |
| BRB | 4\$ | |
| CALLS | #0, CLEARSQUEEZE | 0815 |
| PUSHAB | SD_WIDTH | 0817 |
| CALLS | #1, CLISPRESNT | |
| BLBC | R0, 5\$ | |

| | | OFF C | | 00000 | |
|-------|----|-------|------|-------|-------|
| | 5B | 0000G | CF | 9E | 00002 |
| | 5A | 0000G | CF | 9E | 00007 |
| | 59 | 0000G | CF | 9E | 0000C |
| | 58 | 0000G | CF | 9E | 00011 |
| | 57 | 0000' | CF | 9E | 00016 |
| | 56 | 0000G | CF | 9E | 0001B |
| E0 | A7 | 0000G | CF | 9E | 00020 |
| E4 | A7 | 0000G | CF | 9E | 00026 |
| | | 0000G | CF | D4 | 0002C |
| | | 0000G | CF | 9F | 00030 |
| | | 0000G | 7E | D4 | 00034 |
| 0000V | CF | | 02 | FB | 00036 |
| | 68 | | 68 | 9E | 0003B |
| 04 | A8 | | 68 | 9E | 0003E |
| | 69 | | 69 | 9E | 00042 |
| 04 | A9 | | 69 | 9E | 00045 |
| | 6A | | 6A | 9E | 00049 |
| 04 | AA | | 6A | 9E | 0004C |
| | 6B | | 6B | 9E | 00050 |
| 04 | AB | | 6B | 9E | 00053 |
| 0000G | CF | 0000G | CF | 9E | 00057 |
| 0000G | CF | 0000G | CF | 9E | 0005E |
| | | | 52 | D4 | 00065 |
| | | FEBC | C742 | DD | 00067 |
| 0000G | CF | | 01 | FB | 0006C |
| | 53 | FF1C | C742 | 9A | 00071 |
| | 51 | | 50 | D0 | 00077 |
| | 53 | | 51 | F0 | 0007A |
| | 0B | | 51 | E9 | 0007F |
| | 50 | FF34 | C742 | D0 | 00082 |
| | | | 03 | 13 | 00088 |
| | 60 | | 00 | FB | 0008A |
| | 52 | | 17 | F3 | 0008D |
| 02 | A6 | | 03 | E1 | 00091 |
| 0000V | CF | | 00 | FB | 00096 |
| | | | 05 | 11 | 0009B |
| 0000V | CF | | 00 | FB | 0009D |
| | | 0000' | CF | 9F | 000A2 |
| 0000G | CF | | 01 | FB | 000A6 |
| | 05 | | 50 | E9 | 000AB |

66

01

06
07

| | | | | | | | | | | |
|----|-------|----|-------|----|----|-------|-------|--------|----------------------------|------|
| | 0000V | CF | | 00 | FB | 000AE | | CALLS | #0, SETLISTWIDTH | 8819 |
| | | | | 57 | DD | 000B3 | 5\$: | PUSHL | R7 | 8824 |
| | 0000G | CF | 0000' | CF | 9F | 000B5 | | PUSHAB | SD_P1 | |
| | 0000V | CF | | 02 | FB | 000B9 | | CALLS | #2, CLISGET VALUE | |
| | | | | 00 | FB | 000BE | | CALLS | #0, INPUT1FILE | 8825 |
| | | | 0000' | 57 | DD | 000C3 | | PUSHL | R7 | 8830 |
| | | | | CF | 9F | 000C5 | | PUSHAB | SD_OUTPUT | |
| | 0000G | CF | | 02 | FB | 000C9 | | CALLS | #2, CLISGET VALUE | |
| | 0000V | CF | | 00 | FB | 000CE | | CALLS | #0, OUTPUTFILE | 8831 |
| | | | FC | A7 | D4 | 000D3 | | CLRL | FILESNOTFOUND | 8833 |
| 48 | | 66 | | 06 | E0 | 000D6 | | BBS | #6, LIB\$GL_CTLMSK, 8\$ | 8835 |
| 43 | 04 | A6 | | 03 | E0 | 000DA | | BBS | #3, LIB\$GL_CTLMSK+4, 8\$ | 8836 |
| 3E | 01 | A6 | | 01 | E0 | 000DF | | BBS | #1, LIB\$GL_CTLMSK+1, 8\$ | 8837 |
| 39 | 03 | A6 | | 04 | E0 | 000E4 | | BBS | #4, LIB\$GL_CTLMSK+3, 8\$ | 8838 |
| | | | | 57 | DD | 000E9 | 6\$: | PUSHL | R7 | 8840 |
| | | | 0000' | CF | 9F | 000EB | | PUSHAB | SD_P2 | |
| | 0000G | CF | | 02 | FB | 000EF | | CALLS | #2, CLISGET_VALUE | |
| | 02 | 2B | | 50 | E9 | 000F4 | | BLBC | R0, 8\$ | |
| | | A6 | | 04 | 8A | 000F7 | | BICB2 | #4, LIB\$GL_CTLMSK+2 | 8842 |
| | | | 0000' | CF | 9F | 000FB | | PUSHAB | SD_MODULES | 8843 |
| | 0000G | CF | | 01 | FB | 000FF | | CALLS | #1, CLISPRESNT | |
| | 05 | | | 50 | E9 | 00104 | | BLBC | R0, 7\$ | |
| | 0000V | CF | | 00 | FB | 00107 | | CALLS | #0, SETMODULENAME | 8845 |
| | | | | 57 | DD | 0010C | 7\$: | PUSHL | R7 | 8846 |
| | 0000V | CF | | 01 | FB | 0010E | | CALLS | #1, INPUT2FILE | |
| D1 | 02 | A6 | | 02 | E1 | 00113 | | BBC | #2, LIB\$GL_CTLMSK+2, 6\$ | 8847 |
| | | 50 | | A7 | D0 | 00118 | | MOVL | LASTFDB, R0 | 8848 |
| | 04 | A0 | | 01 | 88 | 0011C | | BISB2 | #1, 4(R0) | |
| | | | | C7 | 11 | 00120 | | BRB | 6\$ | 8840 |
| | | 50 | 0000G | CF | D0 | 00122 | 8\$: | MOVL | LIB\$GL_INPLIST, R0 | 8851 |
| | | | | 2A | 12 | 00127 | | BNEQ | 9\$ | |
| | | | FC | A7 | D5 | 00129 | | TSTL | FILESNOTFOUND | 8852 |
| | | | | 25 | 13 | 0012C | | BEQL | 9\$ | |
| | | | | 66 | 95 | 0012E | | TSTB | LIB\$GL_CTLMSK | 8853 |
| | | | | 5E | 19 | 00130 | | BLSS | 14\$ | |
| | | 1D | 01 | A6 | E8 | 00132 | | BLBS | LIB\$GL_CTLMSK+1, 9\$ | 8855 |
| 18 | 01 | A6 | | 01 | E0 | 00136 | | BBS | #1, LIB\$GL_CTLMSK+1, 9\$ | 8856 |
| 13 | 01 | A6 | | 03 | E0 | 00138 | | BBS | #3, LIB\$GL_CTLMSK+1, 9\$ | 8857 |
| 0E | 01 | A6 | | 04 | E0 | 00140 | | BBS | #4, LIB\$GL_CTLMSK+1, 9\$ | 8858 |
| 09 | 04 | A6 | | 03 | E0 | 00145 | | BBS | #3, LIB\$GL_CTLMSK+4, 9\$ | 8859 |
| 05 | | 66 | | 06 | E0 | 0014A | | BBS | #6, LIB\$GL_CTLMSK, 9\$ | 8860 |
| 3D | 03 | A6 | | 04 | E1 | 0014E | | BBC | #4, LIB\$GL_CTLMSK+3, 14\$ | 8861 |
| | | | | 50 | D5 | 00153 | 9\$: | TSTL | R0 | 8864 |
| | | | | 09 | 13 | 00155 | | BEQL | 10\$ | |
| 04 | 01 | A6 | | 02 | E0 | 00157 | | BBS | #2, LIB\$GL_CTLMSK+1, 10\$ | 8865 |
| | 01 | A6 | | 24 | 88 | 0015C | | BISB2 | #36, LIB\$GL_CTLMSK+1 | 8866 |
| | | 50 | 0000G | CF | D0 | 00160 | 10\$: | MOVL | LIB\$GL_LIBFDB, R0 | 8870 |
| 08 | A0 | D0 | | 08 | 28 | 00165 | | MOVC3 | #8, DEF LIB_EXTN, 8(R0) | |
| 09 | 01 | A6 | | 02 | E0 | 00168 | | BBS | #2, LIB\$GL_CTLMSK+1, 11\$ | 8871 |
| | | 05 | 01 | A6 | E8 | 00170 | | BLBS | LIB\$GL_CTLMSK+1, 11\$ | |
| 09 | 01 | A6 | | 04 | E1 | 00174 | | BBC | #4, LIB\$GL_CTLMSK+1, 12\$ | 8872 |
| | | | 0000G | CF | 9F | 00179 | 11\$: | PUSHAB | LIB\$GL_TMPFDB | 8873 |
| | 0000V | CF | | 01 | FB | 0017D | | CALLS | #1, ALLOCATE FDB | |
| | | | 0000' | CF | D5 | 00182 | 12\$: | TSTL | LIB\$GL_CREFLAGS | 8875 |
| | | | | 04 | 12 | 00186 | | BNEQ | 13\$ | |
| | 03 | A6 | | 10 | 8A | 00188 | | BICB2 | #16, LIB\$GL_CTLMSK+3 | 8876 |
| | | 50 | | 01 | D0 | 0018C | 13\$: | MOVL | #1, R0 | 8877 |

LIB_GETCMD
V04=000

LIB_GET_COMMAND

N 3
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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[LIBRAR.SRC]GETCMD.B32;1

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50 04 0018F RET
04 00190 145: CLRL R0
04 00192 RET

: 0878
:
:

; Routine Size: 403 bytes, Routine Base: %CODE% + 0000

inputfile

```
413 0879 1 %SBTTL 'inputfile';
414 0880 1
415 0881 1 ROUTINE inputfile =
416 0882 2 BEGIN
417 0883 2 ++
418 0884 2 This routine is called by CLI when the library filename
419 0885 2 is processed.
420 0886 2
421 0887 2 Implicit inputs:
422 0888 2
423 0889 2 token_desc Address of the descriptor
424 0890 2
425 0891 2 Outputs:
426 0892 2
427 0893 2 An fdb is allocated for the library file and the information is filled
428 0894 2 in. If not creating the library, open the file to ensure it exists,
429 0895 2 and determine the library type expected if an explicit extension was
430 0896 2 specified.
431 0897 2
432 0898 2 --
433 0899 2 LOCAL
434 0900 2 status,
435 0901 2 openstatus,
436 0902 2 filenamestring,
437 0903 2 lfab : BBLOCK [fab$c_bln]:
438 0904 2
439 0905 2 allocate fdb (lib$gl_libfdb); !Allocate a new FDB for library
440 0906 2 lib_get_mem(.token_desc[dsc$w_length], filenamestring);
441 0907 2 ch$move(.token_desc[dsc$w_length], .token_desc[dsc$a_pointer], .filenamestring);
442 0908 2 lib$gl_libfdb[fdb$l_namdesc] = .token_desc[dsc$w_length];
443 0909 2 lib$gl_libfdb[fdb$l_namdesc] + 4 = .filenamestring;
444 0910 2 CH$MOVE (dsc$c_s_bln, def lib_extn, lib$gl_libfdb[fdb$l_defext]);
445 0911 2 IF NOT .lib$gl_cflmsk [lib$gl_create] !Unless creating the library
446 0912 2 THEN
447 0913 2 BEGIN
448 0914 2 BIND
449 0915 2 filenamedesc = lib$gl_libfdb[fdb$l_namdesc] : BBLOCK,
450 0916 2 namblk = lib$gl_libfdb[fdb$l_tnam] : BBLOCK;
451 0917 2
452 0918 2 $FAB_INIT (FAB = lfab,
453 0919 2 FNS = .token_desc[dsc$w_length],
454 0920 2 FNA = .token_desc[dsc$a_pointer],
455 0921 2 NAM = namblk,
456 0922 2 DNS = .def_lib_extn[dsc$w_length],
457 0923 2 DNA = .def_lib_extn[dsc$a_pointer]);
458 0924 2 IF NOT (openstatus = $OPEN (FAB = lfab))
459 0925 2 AND .openstatus NEQ rms$_flk !LBR will wait if locked
460 0926 2 THEN BEGIN
461 0927 2 getfilnamdesc (lfab, filenamedesc); !Get string descriptor for filename
462 0928 2 SIGNAL_STOP (lib$_openin, 1, filenamedesc, .openstatus, .lfab[fab$l_stv]);
463 0929 2 END;
464 0930 2 getfilnamdesc (lfab, filenamedesc);
465 0931 2 IF NOT (IF NOT .openstatus THEN true
466 0932 2 ELSE (status = $CLOSE (FAB = lfab)))
467 0933 2 THEN SIGNAL (lib$_closein, 1, lib$gl_libfdb[fdb$l_namdesc], .status,
468 0934 2 .lfab[fab$l_stv]);
469 0935 2 IF .namblk[nam$v_exp_type] !If explicit extension given
```

```
470 0936 3      AND .namblk [nam$b_rsl] NEQ 0      ! and resultant string exists
471 0937 3      AND .lib$gl_type EQL lbr$c_typ_unk ! and library type was
472 0938 4      THEN BEGIN                       ! not set with a qualifier
473 0939 4
474 0940 4      ! Lookup the extension in the table. If its a known extension, change
475 0941 4      ! the library type to match the extension.
476 0942 4
477 0943 4      LOCAL
478 0944 4      ext_start,
479 0945 4      ext_end;
480 0946 4
481 0947 4      IF CH$FAIL(ext_start = CH$FIND_CH (.namblk [nam$b_rsl], !Find end of directory
482 0948 4      .namblk [nam$l_rsa],
483 0949 4      %ASCII ']''))
484 0950 4      THEN IF CH$FAIL(ext_start = CH$FIND_CH (.namblk [nam$b_rsl], !Find end of directory
485 0951 4      .namblk [nam$l_rsa],
486 0952 4      %ASCII '>'))
487 0953 4      THEN ext_start = .namblk[nam$l_rsa];
488 0954 4      ext_start = CH$FIND_CH (.namblk [nam$b_rsl] - (.ext_start - .namblk [nam$l_rsa]),
489 0955 4      .ext_start, %ASCII '.'); !Find start of extension
490 0956 4      ext_end = CH$FIND_CH (.namblk [nam$b_rsl] - (.ext_start - .namblk [nam$l_rsa]),
491 0957 4      .ext_start, %ASCII ';');
492 0958 4      INCRU i FROM 0 TO lbr$c_typ_decmx - 1 !Look at all the extensions
493 0959 5      DO BEGIN
494 0960 5      BIND
495 0961 5      curdesc = lib_obj_defext + .i*(2 * dsc$c_s_bln) : BBLOCK; !Name descriptor
496 0962 5
497 0963 5      IF CH$EQL (.ext_end - .ext_start, .ext_start,
498 0964 5      .curdesc [dsc$w_length], .curdesc [dsc$a_pointer])
499 0965 6      THEN BEGIN
500 0966 6      set lib_type (.i + 1, curdesc); !Set the library type
501 0967 6      EXITLOOP; !and we are done
502 0968 5      END;
503 0969 4      END;
504 0970 3      END;
505 0971 2      END;
506 0972 2
507 0973 2      ! If the library type is still undefined at this point, default it to 'object':
508 0974 2
509 0975 2      IF .lib$gl_type EQL lbr$c_typ_unk THEN lib$gl_type = lib$s_object;
510 0976 2      RETURN true
511 0977 1      END; !Of INPUT1FILE
```

.EXTRN SYS\$OPEN, SYS\$CLOSE

OFFC 00000 INPUT1FILE:

| | | | | | | | |
|-------|-------|----|----|-------|--------|--------------------------------------|------|
| 5B | 0000G | CF | 9E | 00002 | .WORD | Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 | 0881 |
| 5A | 0000G | CF | 9E | 00007 | MOVAB | LIB\$GL_LIBFDB, R11 | |
| 59 | 0000' | CF | 9E | 0000C | MOVAB | LIB\$GL_TYPE, R10 | |
| 5E | AC | AE | 9E | 00011 | MOVAB | TOKEN_DESC, R9 | |
| | | 5B | DD | 00015 | MOVAB | -84(SP), SP | |
| C000V | CF | 01 | FB | 00017 | PUSHL | R11 | 0905 |
| | | 5E | DD | 0001C | CALLS | #1, ALLOCATE_FDB | |
| 7E | | 69 | 3C | 0001E | PUSHL | SP | 0906 |
| | | | | | MOVZWL | TOKEN_DESC, -(SP) | |

| | | | | | | | | | |
|------|----|-----------|----|-------|------|-------|--------|------------------------------------|------|
| 00 | BE | 04 | 58 | 02 | FB | 00021 | CALLS | #2, LIB GET MEM | 0907 |
| | | | 59 | 69 | 3C | 00026 | MOVZWL | TOKEN DESC, -R8 | |
| | | | 56 | 58 | 28 | 00029 | MOV3 | R8, @TOKEN DESC+4, @FILENAMESTRING | 0908 |
| | | 10 | A6 | 6B | DD | 0002F | MOVL | LIB\$GL_LIBFDB, R6 | |
| | | 14 | A6 | 58 | DD | 00032 | MOVL | R8, 16(R6) | 0909 |
| 08 | A6 | DD | A9 | 6E | DD | 00036 | MOVL | FILENAMESTRING, 20(R6) | 0910 |
| | | | | 08 | 28 | 0003A | MOV3 | #8, DEF LIB EXTN, 8(R6) | 0911 |
| | | | | 0000G | CF | 95 | TSTB | LIB\$GL_CTLMASK | |
| | | | | | 03 | 18 | BGEQ | 1\$ | |
| | | | | | 012E | 31 | BRW | 12\$ | |
| | | 57 | | 10 | A6 | 9E | MOVAB | 16(R6), R7 | 0915 |
| | | 56 | | 40 | A6 | 9E | MOVAB | 64(R6), R6 | 0916 |
| 0050 | 8F | 00 | 6E | 00 | 00 | 2C | MOV3 | #0, (SP), #0, #80, \$RMS_PTR | 0923 |
| | | | | 04 | AE | 00058 | | | |
| | | 04 | AE | 5003 | 8F | B0 | MOVW | #20483, \$RMS_PTR | |
| | | 1A | AE | | 02 | 90 | MOVB | #2, \$RMS_PTR+22 | |
| | | 23 | AE | | 02 | 90 | MOVB | #2, \$RMS_PTR+31 | |
| | | 2C | AE | | 56 | DD | MOVL | R6, \$RMS_PTR+40 | |
| | | 30 | AE | 04 | A9 | DD | MOVL | TOKEN DESC+4, \$RMS_PTR+44 | |
| | | 34 | AE | D4 | A9 | DD | MOVL | DEF LIB EXTN+4, \$RMS_PTR+48 | |
| | | 38 | AE | | 58 | 90 | MOVB | R8, \$RMS_PTR+52 | |
| | | 39 | AE | DD | A9 | 90 | MOVB | DEF LIB_EXTN, \$RMS_PTR+53 | |
| | | | | 04 | AE | 9F | PUSHAB | LFAB | 0924 |
| | | 00000000G | 00 | 01 | FB | 00082 | CALLS | #1, SYS\$OPEN | |
| | | | 52 | 50 | DD | 00089 | MOVL | R0, OPENSTATUS | |
| | | | 29 | 52 | E8 | 0008C | BLBS | OPENSTATUS, 2\$ | |
| | | 0001828A | 8F | 52 | D1 | 0008F | CMPL | OPENSTATUS, #98954 | 0925 |
| | | | | 20 | 13 | 00096 | BEQL | 2\$ | |
| | | | | 57 | DD | 00098 | PUSHL | R7 | 0927 |
| | | | | 08 | AE | 9F | PUSHAB | LFAB | |
| | | 0000G | CF | 02 | FB | 0009D | CALLS | #2, GETFILNAMDESC | |
| | | | | 10 | AE | DD | PUSHL | LFAB+12 | 0928 |
| | | | | | 52 | DD | PUSHL | OPENSTATUS | |
| | | | | | 57 | DD | PUSHL | R7 | |
| | | | | | 01 | DD | PUSHL | #1 | |
| | | 00000000G | 00 | 8F | DD | 000AB | PUSHL | #8786072 | |
| | | | | 05 | FB | 000B1 | CALLS | #5, LIB\$STOP | |
| | | | | 57 | DD | 000B8 | PUSHL | R7 | 0930 |
| | | | | 08 | AE | 9F | PUSHAB | LFAB | |
| | | 0000G | CF | 02 | FB | 000BD | CALLS | #2, GETFILNAMDESC | |
| | | | 25 | 52 | E9 | 000C2 | BLBC | OPENSTATUS, 3\$ | 0931 |
| | | | | 04 | AE | 9F | PUSHAB | LFAB | 0932 |
| | | 00000000G | 00 | 01 | FB | 000C8 | CALLS | #1, SYS\$CLOSE | |
| | | | 18 | 50 | E8 | 000CF | BLBS | STATUS, 3\$ | |
| | | | | 10 | AE | DD | PUSHL | LFAB+12 | 0934 |
| | | | | | 50 | DD | PUSHL | STATUS | 0933 |
| 7E | | 6B | | 10 | C1 | 000D7 | ADDL3 | #16, LIB\$GL_LIBFDB, -(SP) | |
| | | | | 01 | DD | 000DB | PUSHL | #1 | |
| | | | | 8F | DD | 000DD | PUSHL | #8786000 | |
| | | 00000000G | 00 | 05 | FB | 000E3 | CALLS | #5, LIB\$SIGNAL | |
| 7F | | 34 | A6 | 01 | E1 | 000EA | BBC | #1, 52(R6), 10\$ | 0935 |
| | | | | 03 | A6 | 95 | TSTB | 3(R6) | 0936 |
| | | | | | 7A | 13 | BEQL | 10\$ | |
| | | | | | 6A | 05 | TSTL | LIB\$GL_TYPE | 0937 |
| | | | | | 7F | 12 | BNEQ | 12\$ | |
| | | 50 | | 03 | A6 | 9A | MOVZBL | 3(R6), R0 | 0947 |
| | | 52 | | 04 | A6 | DD | MOVL | 4(R6), R2 | 0948 |

| | | | | | | |
|----|-------|---------|-------------|--------|-----------------------------------|------|
| 62 | 50 | 5D | BF 3A 00100 | LOCC | #93, R0, (R2) | 0947 |
| | | | 02 12 00105 | BNEQ | 4\$ | |
| | 54 | | 51 D4 00107 | CLRL | R1 | |
| | | | 51 D0 00109 | MOVL | R1, EXT_START | |
| | | | 14 12 0010C | BNEQ | 6\$ | 0949 |
| | 50 | 03 | A6 9A 0010E | MOVZBL | 3(R6), R0 | 0950 |
| 62 | 50 | | 3E 3A 00112 | LOCC | #62, R0, (R2) | |
| | | | 02 12 00116 | BNEQ | 5\$ | |
| | 54 | | 51 D4 00118 | CLRL | R1 | |
| | | | 51 D0 0011A | MOVL | R1, EXT_START | |
| | | | 03 12 0011D | BNEQ | 6\$ | 0952 |
| | 54 | | 52 D0 0011F | MOVL | R2, EXT_START | 0953 |
| 50 | 52 | | 54 C3 00122 | SUBL3 | EXT_START, R2, R0 | 0954 |
| | 51 | 03 | A6 9A 00126 | MOVZBL | 3(R6), R1 | |
| | 50 | | 51 C0 0012A | ADDL2 | R1, R0 | |
| 64 | 50 | | 2E 3A 0012D | LOCC | #46, R0, (EXT_START) | |
| | | | 02 12 00131 | BNEQ | 7\$ | |
| | 54 | | 51 D4 00133 | CLRL | R1 | |
| | | | 51 D0 00135 | MOVL | R1, EXT_START | |
| 50 | 52 | | 54 C3 00138 | SUBL3 | EXT_START, R2, R0 | 0956 |
| | 51 | 03 | A6 9A 0013C | MOVZBL | 3(R6), R1 | |
| | 50 | | 51 C0 00140 | ADDL2 | R1, R0 | |
| 64 | 50 | | 3B 3A 00143 | LOCC | #59, R0, (EXT_START) | |
| | | | 02 12 00147 | BNEQ | 8\$ | |
| | 51 | | 51 D4 00149 | CLRL | R1 | |
| 57 | 51 | | 54 C3 0014B | SUBL3 | EXT_START, EXT_END, R7 | 0963 |
| | | | 56 D4 0014F | CLRL | I | |
| 50 | 56 | | 04 7B 00151 | ASHL | #4, I, R0 | 0961 |
| | 55 | 0000GCF | 40 9E 00155 | MOVAB | LIB_OBJ_DEEXT[R0], R5 | |
| 65 | 00 | 64 | 57 2D 0015B | CMPC5 | R7, (EXT_START), #0, (R5), @4(R5) | 0963 |
| | | 04 | E5 00160 | | | |
| | | | 0C 12 00162 | BNEQ | 11\$ | |
| | | | 55 DD 00164 | PUSHL | R5 | 0966 |
| | 0000V | 01 | A6 9F 00166 | PUSHAB | 1(I) | |
| | CF | | 02 FB 00169 | CALLS | #2, SET_LIB_TYPE | |
| | | | 07 11 0016E | BRB | 12\$ | 0965 |
| | 04 | | 56 D6 00170 | INCL | I | 0958 |
| | | | 56 D1 00172 | CMPL | I, #4 | |
| | | | DA 1B 00175 | BLEQU | 9\$ | |
| | | | 6A D5 00177 | TSTL | LIB\$GL_TYPE | 0975 |
| | | | 03 12 00179 | BNEQ | 13\$ | |
| | 6A | | 01 D0 0017B | MOVL | #1, LIB\$GL_TYPE | |
| | 50 | | 01 D0 0017E | MOVL | #1, R0 | 0976 |
| | | | 04 00181 | RET | | 0977 |

; Routine Size: 386 bytes. Routine Base: \$CODE\$ + 0193

```
0978 1 %SBTTL 'input2file';
0979 1
0980 1 ROUTINE input2file (desc) =
0981 2 BEGIN
0982 2 ++
0983 2 This routine processes the secondary input file specifiers.
0984 2
0985 2
0986 2 Inputs:
0987 2
0988 2     desc    Address of the descriptor
0989 2
0990 2 Outputs:
0991 2
0992 2     lib$file_scan is called for the file specifier to parse/search and
0993 2     hence get all files included by the specification. All files searched
0994 2     successfully will be added to the input list.
0995 2
0996 2 --
0997 2
0998 2 MAP
0999 2     desc : REF BBLOCK;
1000 2
1001 2 DWN
1002 2     lnamesa : VECTOR [nam$c_maxrss, BYTE],
1003 2     lnamrsa : VECTOR [nam$c_maxrss, BYTE],
1004 2     lnam : $NAM (
1005 2         ESA = lnamesa,
1006 2         ESS = nam$c_maxrss,
1007 2         RSA = lnamrsa,
1008 2         RSS = nam$c_maxrss),
1009 2     lfab : $FAB (
1010 2         NAM = lnam,
1011 2         sticky_context: INITIAL (0),      ! Argument for lib$file_scan.
1012 2         status;
1013 2
1014 2 lib$gl_ctlmsk[lib$v_selective] = cli$present(sd_selective_search);
1015 2
1016 2 ! Set up the FAB for current input file:
1017 2
1018 2 lfab[fab$l_fna] = .desc [dsc$a_pointer];
1019 2 lfab[fab$b_fns] = .desc [dsc$w_length];
1020 2 lfab[fab$l_dna] = .def_fil_extn [dsc$a_pointer];
1021 2 lfab[fab$b_dns] = .def_fil_extn [dsc$w_length];
1022 2
1023 2 status = lib$file_scan (lfab, filescantruaact,      !Find all the files
1024 2                        filescanflsact, sticky_context);
1025 2
1026 2 ! lib$file_scan signals any errors, and if no input files are opened, then
1027 2 ! LIBRARIAN terminates, so no need to retain status.
1028 2 RETURN true
1029 1 END;                                !Of input2file
```

.PSECT \$OWNS,NOEXE,2

```
001A4 LNAME$A: .BLKB 255
002A3 .BLKB 1
002A4 LNAME$A: .BLKB 255
003A3 .BLKB 1
02 003A4 LNAME: .BYTE 2
60 003A5 .BYTE 96
FF 003A6 .BYTE -1
00 003A7 .BYTE 0
00000000' 003A8 .ADDRESS LNAME$A
00 003AC .BYTE 0
00 003AD .BYTE 0
FF 003AE .BYTE -1
00 003AF .BYTE 0
00000000' 003B0 .ADDRESS LNAME$A
00000000 003B4 .LONG 0
0000# 003B8 .WORD 0[8]
0000# 003C8 .WORD 0[3]
0000# 003CE .WORD 0[3]
00000000 003D4 .LONG 0
00000000 003D8 .LONG 0
00 003DC .BYTE 0
00 003DD .BYTE 0
00 003DE .BYTE 0
00 003DF .BYTE 0
00 003E0 .BYTE 0
00 003E1 .BYTE 0
00# 003E2 .BYTE 0[2]
00000000 003E4 .LONG 0
00000000 003E8 .LONG 0
00000000 003EC .LONG 0
00000000 003F0 .LONG 0
00000000 003F4 .LONG 0
00000000 003F8 .LONG 0
00000000# 003FC .LONG 0[2]
03 00404 LFAB: .BYTE 3
50 00405 .BYTE 80
0000 00406 .WORD 0
00000000 00408 .LONG 0
00000000 0040C .LONG 0
00000000 00410 .LONG 0
00000000 00414 .LONG 0
0000 00418 .WORD 0
02 0041A .BYTE 2
00 0041B .BYTE 0
00000000 0041C .LONG 0
00 00420 .BYTE 0
00 00421 .BYTE 0
00 00422 .BYTE 0
02 00423 .BYTE 2
00000000 00424 .LONG 0
00000000 00428 .LONG 0
00000000' 0042C .ADDRESS LNAME
00000000 00430 .LONG 0
00000000 00434 .LONG 0
00 00438 .BYTE 0
00 00439 .BYTE 0
0000 0043A .WORD 0
```



```
00000000 0043C .LONG 0
0000 00440 .WORD 0
00 00442 .BYTE 0
00 00443 .BYTE 0
00000000 00444 .LONG 0
00000000 00448 .LONG 0
0000 0044C .WORD 0
00 0044E .BYTE 0
00 0044F .BYTE 0
00000000 00450 .LONG 0
00000000 00454 STICKY_CONTEXT:
                                .LONG 0
00458 STATUS: .BLKB 4
```

.PSECT \$CODE\$,NOWRT,2

0004 0000 INPUT2FILE:

```
.WORD Save R2
MOVAB LFAB+44, R2
PUSHAB SD_SELECTIVE_SEARCH
CALLS #1, CLISPRESNT
INSV R0, #2, #1, LIB$GL_CTLMSK+2
MOVL DESC, R0
MOVL 4(R0), LFAB+44
MOVB (R0), LFAB+52
MOVL DEF_FIL_EXTN+4, LFAB+48
MOVB DEF_FIL_EXTN, LFAB+53
PUSHAB STICKY_CONTEXT
PUSHAB FILESCANFLSACT
PUSHAB FILESCANTRUACT
PUSHAB LFAB
CALLS #4, LIB$FILE_SCAN
MOVL R0, STATUS
MOVL #1, R0
RET
```

```
0000G CF 01 0000G CF 52 0000' CF 9E 00002
0000' CF 9F 00007
01 FB 0000B
02 50 FO 00010
04 AC DO 00017
04 AO DO 0001B
08 A2 60 90 0001F
04 A2 FCFO C2 DO 00023
09 A2 FCEC C2 90 00029
24 A2 9F 0002F
0000V CF 9F 00032
0000V CF 9F 00036
D4 A2 9F 0003A
00000000G 00 04 FB 0003D
28 A2 50 DO 00044
50 01 DO 00048
04 0004B
```

```
0980
1013
1018
1019
1020
1021
1023
1028
1029
```

; Routine Size: 76 bytes, Routine Base: \$CODE\$ + 0315

```

566 1030 1 %SBTTL 'filescantruact';
567 1031 1
568 1032 1 ROUTINE filescantruact (fab) =
569 1033 2 BEGIN
570 1034 2 ++
571 1035 2 This routine is called by lib$file_scan when a successful $search has
572 1036 2 been done.
573 1037 2
574 1038 2
575 1039 2 Inputs:
576 1040 2
577 1041 2 fab Address of the fab
578 1042 2
579 1043 2 Outputs:
580 1044 2
581 1045 2 a file descriptor block is allocated and the information is copied
582 1046 2 into it so the file can be opened later.
583 1047 2
584 1048 2 --
585 1049 2
586 1050 2 MAP
587 1051 2 fab : REF BBLOCK;
588 1052 2 LOCAL
589 1053 2 module_string,
590 1054 2 saversa,
591 1055 2 namblk : REF BBLOCK,
592 1056 2 newnamdesc : REF BBLOCK,
593 1057 2 newfdb : REF BBLOCK;
594 1058 2
595 1059 2 BIND
596 1060 2 scaname = .fab [fab$l_nam] : BBLOCK; !NAM block of winner
597 1061 2
598 1062 2 allocate_fdb (newfdb); !Get a new fdb
599 1063 2 newnamdesc = newfdb [fdb$l_namdesc]; !Point to filename descriptor
600 1064 2 lastfdb [fdb$l_nextfdb] = .newfdb; !Link into the list
601 1065 2 prevfdb = .lastfdb;
602 1066 2 lastfdb = .newfdb; !Set new last
603 1067 2 namblk = newfdb [fdb$l_nam]; !Point to new nam block
604 1068 2 saversa = .namblk [nam$l_rsa]; !Save over CH$MOVE
605 1069 2 CH$MOVE (nam$b_bln, scaname, .namblk); !Copy NAM
606 1070 2 namblk [nam$l_esa] = namblk [nam$l_rsa] = .saversa; !Set ESA to RSA
607 1071 2 namblk [nam$b_rsl] = .scaname [nam$b_rsl];
608 1072 2 namblk [nam$b_esl] = .scaname [nam$b_rsl];
609 1073 2 getfilnamdesc (.fab, .newnamdesc); !Get string descriptor for file spec.
610 1074 2 CH$MOVE (.namblk [nam$b_rsl], .scaname [nam$l_rsa], .namblk [nam$l_rsa]);
611 1075 2 if .modulenamedesc[dsc$w_length] gtr 0
612 1076 2 then
613 1077 2 begin
614 1078 2 lib_get_mem(.modulenamedesc[dsc$w_length], module_string);
615 1079 2 ch$move(.modulenamedesc[dsc$w_length], .modulenamedesc[dsc$a_pointer], .module_string);
616 1080 2 newfdb[fdb$l_modnam] = .modulenamedesc[dsc$w_length];
617 1081 2 newfdb[fdb$l_modnam] + 4 = .module_string;
618 1082 2 end;
619 1083 2
620 1084 2 RETURN true
621 1085 2 END;

```

| OFFC 00000 FILESCANTRUACT: | | | | | | | | | | | |
|----------------------------|-------|-------|-------|----|-------|-------|------|--------|--------------------------------------|------|--|
| | | 5E | | 08 | C2 | 00002 | | WORD | Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 | 1032 | |
| | | 5B | 04 | AC | DD | 00005 | | SUBL2 | #8, SP | | |
| | | 58 | 28 | AB | DD | 00009 | | MOVL | FAB, R11 | 1060 | |
| | | | | 5E | DD | 0000D | | MOVL | 40(R11), R8 | | |
| | 0000V | CF | | 01 | FB | 0000F | | PUSHL | SP | 1062 | |
| | | 59 | | 6E | DD | 00014 | | CALLS | #1, ALLOCATE_FDB | | |
| | | 57 | 10 | A9 | 9E | 00017 | | MOVL | NEWFDB, R9 | 1063 | |
| | 0000' | DF | | 59 | DD | 0001B | | MOVAB | 16(R9), NEWNAMDESC | | |
| | 0000' | CF | 0000' | CF | DD | 00020 | | MOVL | R9, @LASTFDB | 1064 | |
| | 0000' | CF | | 59 | DD | 00027 | | MOVL | LASTFDB, PREV FDB | 1065 | |
| | | 56 | 40 | A9 | 9E | 0002C | | MOVL | R9, LASTFDB | 1066 | |
| | | 5A | 04 | A6 | DD | 00030 | | MOVAB | 64(R9), NAMBLK | 1067 | |
| 66 | | 68 | 0060 | 8F | 28 | 00034 | | MOVL | 4(NAMBLK), SAVERSA | 1068 | |
| | | | | 5A | DD | 0003A | | MOVC3 | #96, (R8), (NAMBLK) | 1069 | |
| | 04 | A6 | | 5A | DD | 0003E | | MOVL | SAVERSA, 4(NAMBLK) | 1070 | |
| | 0C | A6 | | | | | | MOVL | SAVERSA, 12(NAMBLK) | | |
| | 03 | A6 | 03 | A8 | 90 | 00042 | | MOVB | 3(R8), 3(NAMBLK) | 1071 | |
| | 0B | A6 | 03 | A8 | 90 | 00047 | | MOVB | 3(R8), 11(NAMBLK) | 1072 | |
| | | | | 57 | DD | 0004C | | PUSHL | NEWNAMDESC | 1073 | |
| | | | | 5B | DD | 0004E | | PUSHL | R11 | | |
| | 0000G | CF | | 02 | FB | 00050 | | CALLS | #2, GETFILNAMDESC | | |
| | | 50 | 03 | A6 | 9A | 00055 | | MOVZBL | 3(NAMBLK), R0 | 1074 | |
| 04 | B6 | 04 | | 50 | 28 | 00059 | | MOVC3 | R0, @4(R8), @4(NAMBLK) | | |
| | | 50 | 0000' | CF | 3C | 0005F | | MOVZWL | MODULENAMEDESC, R0 | 1075 | |
| | | | | 1E | 15 | 00064 | | BLEQ | 1\$ | | |
| | | | 04 | AE | 9F | 00066 | | PUSHAB | MODULE_STRING | 1078 | |
| | | | | 50 | DD | 00069 | | PUSHL | R0 | | |
| | 0000G | CF | | 02 | FB | 0006B | | CALLS | #2, LIB GET MEM | | |
| 04 | BE | 0000' | 0000' | CF | 28 | 00070 | | MOVC3 | MODULENAMEDESC, @MODULENAMEDESC+4, - | 1079 | |
| | | | | | | | | | @MODULE_STRING | | |
| | 18 | A9 | 0000' | CF | 3C | 00079 | | MOVZWL | MODULENAMEDESC, 24(R9) | 1080 | |
| | 1C | A9 | 04 | AE | DD | 0007F | | MOVL | MODULE_STRING, 28(R9) | 1081 | |
| | | 50 | | 01 | DD | 00084 | 1\$: | MOVL | #1, R0 | 1084 | |
| | | | | 04 | 00087 | | | RET | | 1085 | |

; Routine Size: 136 bytes, Routine Base: \$CODE\$ + 0361


```
1086 1 %SBTTL 'filescanflsact';
1087 1
1088 1 ROUTINE filescanflsact (fab) =
1089 2 BEGIN
1090 2 ++
1091 2 This routine is called by lib$file_scan when an unsuccessful $search has
1092 2 been done. Ignore it after issuing an error message
1093 2
1094 2 Inputs:
1095 2
1096 2     fab      Address of the fab
1097 2
1098 2 Outputs:
1099 2
1100 2     An error message is issued.
1101 2
1102 2 --
1103 2
1104 2 MAP
1105 2     fab : REF BBLOCK;
1106 2
1107 2 LOCAL
1108 2     filedesc : BBLOCK [dsc$c_s_bln];           !String desc. for filename
1109 2
1110 2
1111 2     Get the filename string descriptor set up
1112 2
1113 2     getfilnamdesc (.fab, filedesc);
1114 2     SIGNAL (lib$openin, 1, filedesc, .fab [fab$l_sts], .fab [fab$l_stv]);
1115 2     filesnotfound = .filesnotfound + 1;
1116 2
1117 2 RETURN true
1118 1 END;                                           !Of filescanflsact
```

| 0004 00000 FILESCANFLSACT: | | | | | | | | | |
|----------------------------|----|----------|----|-------|-------|--------|-------------------|--|------|
| | 5E | | 08 | C2 | 00002 | .WORD | Save R2 | | 1088 |
| | | | 5E | DD | 00005 | SUBL2 | #8, SP | | |
| | 52 | 04 | AC | D0 | 00007 | PUSHL | SP | | 1113 |
| | | | 52 | DD | 0000B | MOVL | FAB, R2 | | |
| 0000G | CF | | 02 | FB | 0000D | PUSHL | R2 | | |
| | 7E | 08 | A2 | 7D | 00012 | CALLS | #2, GETFILNAMDESC | | |
| | | 08 | AE | 9F | 00016 | MOVQ | 8(R2), -(SP) | | 1114 |
| | | | 01 | DD | 00019 | PUSHAB | FILEDESC | | |
| | | 00861098 | 8F | DD | 0001B | PUSHL | #1 | | |
| 00000000G | 00 | | 05 | FB | 00021 | PUSHL | #8786072 | | |
| | | 0000' | CF | D6 | 00028 | CALLS | #5, LIB\$SIGNAL | | 1115 |
| | 50 | | 01 | D0 | 0002C | INCL | FILESNOTFOUND | | 1117 |
| | | | 04 | 0002F | | MOVL | #1, R0 | | 1118 |
| | | | | | | RET | | | |

; Routine Size: 48 bytes, Routine Base: \$CODE\$ + 03E9

outputfile & setlistfile

```
657 1119 1 %SBTTL 'outputfile & setlistfile';
658 1120 1
659 1121 1 ROUTINE outputfile =
660 1122 2 BEGIN
661 1123 2
662 1124 2 This routine processes output files.
663 1125 2
664 1126 2 LOCAL
665 1127 2 filenamestring;
666 1128 2
667 1129 2 allocate_fdb (lib$gl_outfdb); !Allocate FDB for output
668 1130 2 lib_get_mem(.token_desc[dsc$w_length], filenamestring);
669 1131 2 ch$move(.token_desc[dsc$w_length], .token_desc[dsc$a_pointer], .filenamestring);
670 1132 2 lib$gl_outfdb[fdb$l_namdesc] = .token_desc[dsc$w_length];
671 1133 2 lib$gl_outfdb[fdb$l_namdesc] + 4 = .filenamestring;
672 1134 2 CH$MOVE (dsc$c_s_bln, def_fil_extn, lib$gl_outfdb[fdb$l_defext]); !set default extension
673 1135 2 RETURN true !That's all
674 1136 1 END;
```

007C 0000 OUTPUTFILE:

| | | | | | | | | | |
|----|-------|----|-------|----|-------|-------|--------|--|------|
| | | 56 | 0000' | CF | 9E | 00002 | WORD | Save R2,R3,R4,R5,R6 | 1121 |
| | | 5E | | 04 | C2 | 00007 | MOVAB | TOKEN_DESC, R6 | |
| | | | 0000G | CF | 9F | 0000A | SUBL2 | #4, SP | |
| | 0000V | CF | | 01 | FB | 0000E | PUSHAB | LIB\$GL_OUTFDB | 1129 |
| | | | | 5E | DD | 00013 | CALLS | #1, ALLOCATE_FDB | |
| | | 7E | | 66 | 3C | 00015 | PUSHL | SP | 1130 |
| | 0000G | CF | | 02 | FB | 00018 | MOVZWL | TOKEN_DESC, -(SP) | |
| 00 | BE | 04 | B6 | 66 | 28 | 0001D | CALLS | #2, LIB_GET_MEM | |
| | | 50 | 0000G | CF | D0 | 00023 | MOVCL | TOKEN_DESC, @TOKEN_DESC+4, @FILENAMESTRING | 1131 |
| | | 10 | A0 | 66 | 3C | 00028 | MOVL | LIB\$GL_OUTFDB, R0 | 1132 |
| | | 14 | A0 | 6E | D0 | 0002C | MOVZWL | TOKEN_DESC, 16(R0) | |
| 08 | A0 | D8 | A6 | 08 | 28 | 00030 | MOVL | FILENAMESTRING, 20(R0) | 1133 |
| | | 50 | | 01 | D0 | 00036 | MOVCL | #8, DEF_FIL_EXTN, 8(R0) | 1134 |
| | | | | 04 | 00039 | RET | | #1, R0 | 1135 |
| | | | | | | | | | 1136 |

; Routine Size: 58 bytes, Routine Base: \$CODE\$ + 0419

```
675 1137 1 ROUTINE setlistfile =
676 1138 2 BEGIN
677 1139 2
678 1140 2 This routine is called when the /LIST qualifier is parsed
679 1141 2
680 1142 2
681 1143 2 allocate_fdb (lib$gl_lisfdb); !Allocate FDB for list file
682 1144 2 cli$get_value(sd_list, token_desc);
683 1145 2 if .token_desc[dsc$w_length] NEQ 0 !If /LIST=string
684 1146 2 THEN
685 1147 2 BEGIN
686 1148 2 LOCAL
687 1149 2 filenamestring;
688 1150 2 lib_get_mem(.token_desc[dsc$w_length], filenamestring);
```

```
.. 689      1151      3      ch$move (.token_desc[dsc$w_length], .token_desc[dsc$a_pointer], .filenamestring);
.. 690      1152      3      lib$gl_lisfdb[fdb$l_namdesc] = .token_desc[dsc$w_length];
.. 691      1153      3      lib$gl_lisfdb[fdb$l_namdesc] + 4 = .filenamestring;
.. 692      1154      3      END
.. 693      1155      2      ELSE
.. 694      1156      2      CH$MOVE (dsc$c_s_bln, sysoutputdesc, lib$gl_lisfdb [fdb$l_namdesc]);
.. 695      1157      2      RETURN true
.. 696      1158      1      END;
```

| 00FC 0000 SETLISTFILE: | | | | | | | | | | |
|------------------------|----|-------|----|-------|----|-------|-------|--------|--|------|
| | | | 57 | 0000G | CF | 9E | 00002 | WORD | Save R2,R3,R4,R5,R6,R7 | 1137 |
| | | | 56 | 0000' | CF | 9E | 00007 | MOVAB | LIB\$GL LISFDB, R7 | |
| | | | 5E | | 04 | C2 | 0000C | MOVAB | TOKEN_DESC, R6 | |
| | | | | | 57 | DD | 0000F | SUBL2 | #4, SP | |
| | | 0000V | CF | | 01 | FB | 00011 | PUSHL | R7 | 1143 |
| | | | | | 56 | DD | 00016 | CALLS | #1, ALLOCATE_FDB | |
| | | | | 0000' | CF | 9F | 00018 | PUSHL | R6 | 1144 |
| | | 0000G | CF | | 02 | FB | 0001C | PUSHAB | SD_LIST | |
| | | | 50 | | 66 | 3C | 00021 | CALLS | #2, CL\$GET_VALUE | |
| | | | | | 1C | 13 | 00024 | MOVZWL | TOKEN_DESC, -R0 | 1145 |
| | | | | 4001 | 8F | BB | 00026 | BEQL | 1\$ | |
| | | 0000G | CF | | 02 | FB | 0002A | PUSHR | #*M<R0, SP> | 1150 |
| 00 | BE | 04 | B6 | | 66 | 28 | 0002F | CALLS | #2, LIB_GET_MEM | |
| | | | 50 | | 67 | D0 | 00C35 | MOVAB | TOKEN_DESC, @TOKEN_DESC+4, @FILENAMESTRING | 1151 |
| | | 10 | A0 | | 66 | 3C | 00038 | MOVZWL | LIB\$GL LISFDB, R0 | 1152 |
| | | 14 | A0 | | 6E | D0 | 0003C | MOVZWL | TOKEN_DESC, 16(R0) | |
| | | | 50 | | 09 | 11 | 00040 | MOVL | FILENAMESTRING, 20(R0) | 1153 |
| | | | | | 67 | D0 | 00042 | BRB | 2\$ | 1145 |
| 10 | A0 | E8 | A6 | | 08 | 28 | 00045 | MOVL | LIB\$GL LISFDB, R0 | 1156 |
| | | | 50 | | 01 | D0 | 0004B | MOVZWL | #8, SYSOUTPUTDESC, 16(R0) | |
| | | | | | 04 | 0004E | | RET | #1, R0 | 1157 |
| | | | | | | | | | | 1158 |

: Routine Size: 79 bytes, Routine Base: \$CODE\$ + 0453

```
.. 697      1159      1      %SBTTL 'setlistwidth';
.. 698      1160      1      ROUTINE setlistwidth =
.. 699      1161      1      BEGIN
.. 700      1162      2
.. 701      1163      2      | set list for /list
.. 702      1164      2      |
.. 703      1165      2      |
.. 704      1166      2      | cl$get_value(sd_width, token_desc);
.. 705      1167      2      | lib$cvt_dtb(.token_desc[dsc$w_length], .token_desc[dsc$a_pointer], lib$gl_listwid);
.. 706      1168      2      | RETURN true
.. 707      1169      1      END;
```

0000 0000 SETLISTWIDTH:

LIB_GETCMD
V04=000

setlistwidth

N 4
16-Sep-1984 01:53:15
14-Sep-1984 12:38:03

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| | | | | | | | | | |
|--|-----------|-------|----|----|-------|--------|-------------------|---|------|
| | | 0000' | CF | 9F | 00002 | .WORD | Save nothing | : | 1161 |
| | | 0000' | CF | 9F | 00006 | PUSHAB | TOKEN_DESC | : | 1166 |
| | 0000G | | CF | 02 | FB | PUSHAB | SD_WIDTH | : | |
| | | 0000G | CF | 9F | 0000A | CALLS | #2, CLISGET_VALUE | : | |
| | | 0000' | CF | 9F | 0000F | PUSHAB | LIB\$GL_LISTWID | : | 1167 |
| | | 0000' | CF | DD | 00013 | PUSHL | TOKEN_DESC+4 | : | |
| | | 0000' | CF | 3C | 00017 | MOVZWL | TOKEN_DESC-(SP) | : | |
| | 00000000G | | 03 | FB | 0001C | CALLS | #3, LIB\$CVT_DTB | : | |
| | | | 01 | DD | 00023 | MOVL | #1, R0 | : | 1168 |
| | | | | 04 | 00026 | RET | | : | 1169 |

; Routine Size: 39 bytes, Routine Base: \$CODE\$ + 04A2

```
. 708      1170 1
: 709      1171 1 %SBTTL 'extractfile';
: 710      1172 1 ROUTINE extractfile (desc) =
: 711      1173 2 BEGIN
: 712      1174 2
: 713      1175 2 ! This routine is called when the /EXTRACT qualifier is parsed
: 714      1176 2
: 715      1177 2 get_name_list (lib$gl_modxtrl, sd_extract); !Get the list of modules to extract
: 716      1178 2 RETURN true
: 717      1179 1 END;
```

| | | | | | | | | | |
|--|-------|-------|------|--------------|-------|--------|-------------------|---|------|
| | | 0000 | 0000 | EXTRACTFILE: | | | | | |
| | | 0000' | CF | 9F | 00002 | .WORD | Save nothing | : | 1172 |
| | | 0000G | CF | 9F | 00006 | PUSHAB | SD_EXTRACT | : | 1177 |
| | 0000V | | CF | 02 | FB | PUSHAB | LIB\$GL_MODXTRL | : | |
| | | | 01 | DD | 0000F | CALLS | #2, GET_NAME_LIST | : | |
| | | | | 04 | 00012 | MOVL | #1, R0 | : | 1178 |
| | | | | | | RET | | : | 1179 |

; Routine Size: 19 bytes, Routine Base: \$CODE\$ + 04C9

```
. 718      1180 1
: 719      1181 1 %SBTTL 'createlib';
: 720      1182 1 ROUTINE createlib =
: 721      1183 2 BEGIN
: 722      1184 2
: 723      1185 2 ! Called by CLI when the /CREATE qualifier is seen. Scan the create options
: 724      1186 2
: 725      1187 2 scan_options (sd_create, create_states, create_keys, lib$al_creopts, lib$gl_cre8flags);
: 726      1188 2 RETURN true
: 727      1189 1 END;
```

| | | | | | | | | | |
|--|--|------|------|------------|-------|--------------|--|---|------|
| | | 0000 | 0000 | CREATELIB: | | | | | |
| | | | | | .WORD | Save nothing | | : | 1182 |

| | | | | | |
|-------|----|----|-------|--------|-------------------|
| 0000G | CF | 9F | 00002 | PUSHAB | LIB\$GL_CRE8FLAGS |
| 0000G | CF | 9F | 00006 | PUSHAB | LIB\$AL_CREOPTS |
| 0000' | CF | 9F | 0000A | PUSHAB | CREATE_KEYS |
| 0000' | CF | 9F | 0000E | PUSHAB | CREATE_STATES |
| 0000' | CF | 9F | 00012 | PUSHAB | SD_CREATE |
| 0000V | CF | 05 | FB | CALLS | #5, SCAN_OPTIONS |
| 50 | | 01 | D0 | MOVL | #1, R0 |
| | | 04 | 0001E | RET | |

1187
1188
1189

; Routine Size: 31 bytes, Routine Base: \$CODE\$ + 04DC

```
728 1190 1
729 1191 1 %SBTTL 'compressfile';
730 1192 1 ROUTINE compressfile =
731 1193 2 BEGIN
732 1194 2
733 1195 2 This routine is called when the /COMPRESS qualifier is parsed
734 1196 2
735 1197 2 scan_options (sd compress, compress_states, compress_keys, lib$al_creopts, lib$gl_cre8flags);
736 1198 2 IF .lib$gl_cre8flags [lib$c_opt_keep] THEN lib$gl_ctlmsk [lib$v_keep] = true;
737 1199 2 IF .lib$gl_cre8flags [lib$c_opt_dcx] THEN lib$gl_ctlmsk [lib$v_dcx] = true;
738 1200 2 RETURN true
739 1201 1 END;
```

| | | | | | | | |
|--------------------------|-------|----|----|-------|---------|----------------------------|------|
| 0004 00000 COMPRESSFILE: | | | | WORD | Save R2 | | |
| 52 | 0000G | CF | 9E | 00002 | MOVAB | LIB\$GL_CRE8FLAGS, R2 | 1192 |
| | | 52 | DD | 00007 | PUSHL | R2 | 1197 |
| | 0000G | CF | 9F | 00009 | PUSHAB | LIB\$AL_CREOPTS | |
| | 0000' | CF | 9F | 0000D | PUSHAB | COMPRESS_KEYS | |
| | 0000' | CF | 9F | 00011 | PUSHAB | COMPRESS_STATES | |
| | 0000' | CF | 9F | 00015 | PUSHAB | SD_COMPRESS | |
| 06 | 0000V | CF | 05 | FB | CALLS | #5, SCAN_OPTIONS | |
| | 62 | | 06 | E1 | BBC | #6, LIB\$GL_CRE8FLAGS, 1\$ | 1198 |
| | 0000G | CF | 8F | 88 | BISB2 | #128, LIB\$GL_CTLMSK+3 | |
| | | | 62 | 95 | TSTB | LIB\$GL_CRE8FLAGS | 1199 |
| | | | 05 | 18 | BGEQ | 2\$ | |
| | 0000G | CF | 04 | 88 | BISB2 | #4, LIB\$GL_CTLMSK+4 | |
| | 50 | | 01 | D0 | MOVL | #1, R0 | 1200 |
| | | | 04 | 00034 | RET | | 1201 |

; Routine Size: 53 bytes, Routine Base: \$CODE\$ + 04FB

```
740 1202 1
741 1203 1 %SBTTL 'datareduce';
742 1204 1 ROUTINE datareduce =
743 1205 2 BEGIN
744 1206 2
745 1207 2 This routine is called when the /DATA qualifier is parsed
746 1208 2
747 1209 2 scan_options (sd_data, data_states, data_keys, lib$al_creopts, lib$gl_cre8flags);
```

```
LIB_GETCMD
V04=000
: 748      1210 2 IF .lib$gl_cre8flags [lib$c_opt_dcx] THEN lib$gl_ctlmsk [lib$v_dcx] = true;
: 749      1211 2 RETURN true
: 750      1212 1 END;
```

```
0000 00000 DATAREDUCE:
0000G CF 9F 00002 .WORD Save nothing
0000G CF 9F 00006 PUSHAB LIB$GL_CRE8FLAGS
0000' CF 9F 0000A PUSHAB LIB$AL_CREOPTS
0000' CF 9F 0000E PUSHAB DATA_KEYS
0000' CF 9F 00012 PUSHAB DATA_STATES
0000V CF 05 FB 00016 CALLS SD_DATA
0000G CF 05 95 0001B TSTB #5, SCAN_OPTIONS
05 18 0001F TSTB LIB$GL_CRE8FLAGS
0000G CF 04 88 00021 BGEQ 1$
50 01 D0 00026 1$: MOVL #4, LIB$GL_CTLMSK+4
04 00029 RET MOVL #1, R0
```

; Routine Size: 42 bytes, Routine Base: \$CODE\$ + 0530

```
: 751      1213 1
: 752      1214 1 %SBTTL 'removesymbols';
: 753      1215 1 ROUTINE removesymbols =
: 754      1216 2 BEGIN
: 755      1217 2
: 756      1218 2 : This routine is called when the /REMOVE qualifier is parsed
: 757      1219 2
: 758      1220 2 get_name_list (lib$gl_objsyml, sd remove); !Get the list of symbols to remove
: 759      1221 2 set_lib_type (lib$s_object, lib_obj_defext); !Set object type
: 760      1222 2 RETURN true
: 761      1223 1 END;
```

```
0000 00000 REMOVE$SYMBOLS:
0000' CF 9F 00002 .WORD Save nothing
0000G CF 9F 00006 PUSHAB SD_REMOVE
0000V CF 02 FB 0000A PUSHAB LIB$GL_OBJSYRML
0000G CF 9F 0000F CALLS #2, GET_NAME_LIST
01 DD 00013 PUSHAB LIB_OBJ_DEFEXT
0000V CF 02 FB 00015 PUSHL #1
50 01 D0 0001A CALLS #2, SET_LIB_TYPE
04 0001D MOVL #1, R0
RET
```

; Routine Size: 30 bytes, Routine Base: \$CODE\$ + 055A

```
: 762      1224 1
: 763      1225 1 %SBTTL 'deletemodules';
```

LIB_GETCMD
V04=000

deletemodules

D 5
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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```

: 764      1226 1 ROUTINE deletemodules =
: 765      1227 2 BEGIN
: 766      1228 2
: 767      1229 2 | This routine is called when the /DELETE qualifier is parsed
: 768      1230 2 |
: 769      1231 2 get_name_list (lib$gl_delmodl, sd_delete);      !Get module names to delete
: 770      1232 2 RETURN true
: 771      1233 1 END;
```

| 0000 0000 DELETEMODULES: | | | | |
|--------------------------|----|--|-------------------------|--------|
| | | | WORD Save nothing | : 1226 |
| | | | PUSHAB SD DELETE | : 1231 |
| | | | PUSHAB LIB\$GL_DELMODL | |
| 0000V | CF | | CALLS #2, GET_NAME_LIST | : 1232 |
| 50 | | | MOVL #1, R0 | : 1233 |
| | | | RET | |

; Routine Size: 19 bytes, Routine Base: \$CODE\$ + 0578

```
listonlymods
: 773      1234 1 %SBTTL 'listonlymods';
: 774      1235 1 ROUTINE listonlymods =
: 775      1236 2 BEGIN
: 776      1237 2
: 777      1238 2   This routine is called when the /ONLY qualifier is parsed
: 778      1239 2
: 779      1240 2   get_name_list (lib$gl_modlist, sd_only);
: 780      1241 2 RETURN true
: 781      1242 1 END;
```

```
0000 0000 LISTONLYMODS:
      0000' CF 9F 00002   .WORD Save nothing
      0000G CF 9F 00006   PUSHAB SD_ONLY
      0000V CF 02 FB 0000A  PUSHAB LIB$GL_MODLIST
      01 D0 0000F   CALLS #2, GET_NAME_LIST
      04 00012   MOVL #1, R0
      RET
```

```
: 1235
: 1240
: 1241
: 1242
```

; Routine Size: 19 bytes, Routine Base: \$CODE\$ + 058B

```

: 782      1243 1
: 783      1244 1 %SBTTL 'setmodulename';
: 784      1245 1
: 785      1246 1 ROUTINE setmodulename =
: 786      1247 2 BEGIN
: 787      1248 2
: 788      1249 2   This routine processes the /MODULES qualifier. It is an input-file specific
: 789      1250 2   qualifier.
: 790      1251 2
: 791      1252 2
: 792      1253 2   cli$get_value(sd_modules, modulename_desc);
: 793      1254 2   IF .modulename_desc[dsc$w_length] EQL 0
: 794      1255 2   THEN SIGNAL_STOP (lib$_novalue);
: 795      1256 2 RETURN true
: 796      1257 1 END;
```

```
0000 0000 SETMODULENAME:
      0000' CF 9F 00002   .WORD Save nothing
      0000' CF 9F 00006   PUSHAB MODULENAMEDESC
      0000G CF 02 FB 0000A  PUSHAB SD_MODULES
      0000' CF B5 0000F   CALLS #2, CLISGET_VALUE
      0D 12 00013   TSTW MODULENAMEDESC
      08F DD 00015   BNEQ 1$
      01 FB 0001B   PUSHL #8786180
      01 D0 00022 1$: CALLS #1, LIB$STOP
      04 00025   MOVL #1, R0
      RET
```

```
: 1246
: 1253
: 1254
: 1255
: 1256
: 1257
```


LIB GETCMD
V04=000

setmodulename

F 5
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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; Routine Size: 38 bytes, Routine Base: \$CODE\$ + 057E

scan_options

```
798 1258 1 %SBTTL 'scan_options';
799 1259 1
800 1260 1 ROUTINE scan_options ( qualifier_desc, tp_states, tp_keys, resultvector, resultflags) =
801 1261 2 BEGIN
802 1262 2
803 1263 2 This routine recalls CLI to get the options for
804 1264 2 /CREATE=(BLOCKS=123,GLOBALS=456,MODULES=321,HISTORY=654,VERSION:2) and
805 1265 2 /COMPRESS = (BLO=123, GLOB=456, MOD=321, HIST=654, VERSION:2, KEEP)
806 1266 2
807 1267 2 MAP
808 1268 2     qualifier_desc : ref bblock,
809 1269 2     resultvector : REF VECTOR,
810 1270 2     resultflags : REF BITVECTOR;
811 1271 2
812 1272 2 LOCAL
813 1273 2     ptr,
814 1274 2     value_desc : bblock[dsc$c_s_bln],
815 1275 2     key_desc : bblock[dsc$c_s_bln],
816 1276 2     status;
817 1277 2
818 1278 2 ! Recall CLI for the option name, then recall it again to get the string
819 1279 2 containing the value. convert the decimal value to binary.
820 1280 2
821 1281 2 WHILE cli$get_value(.qualifier_desc, token_desc) DO !While more to do
822 1282 2 BEGIN
823 1283 2     ch$move(dsc$c_s_bln, token_desc, key_desc);
824 1284 2     IF ch$fail( ptr=ch$find_ch(.token_desc[dsc$w_length],.token_desc[dsc$a_pointer],%c'='))
825 1285 2     THEN
826 1286 2         ptr = ch$find_ch(.token_desc[dsc$w_length],.token_desc[dsc$a_pointer],%c':');
827 1287 2     IF .ptr eql 0
828 1288 2     then
829 1289 2         value_desc[dsc$w_length] = 0
830 1290 2     else
831 1291 2         begin
832 1292 2             value_desc[dsc$a_pointer] = .ptr + 1 ;
833 1293 2             value_desc[dsc$w_length] = .token_desc[dsc$w_length] - (.ptr - .token_desc[dsc$a_pointer]) - 1;
834 1294 2             key_desc[dsc$w_length] = .token_desc[dsc$w_length] - .value_desc[dsc$w_length] - 1;
835 1295 2         end;
836 1296 2
837 1297 2         call tparse
838 1298 2
839 1299 2 lib$gl_tpindex = 0;
840 1300 2 lib$gl_valreq = 0;
841 1301 2 status = call tparse (key_desc, .tp_states, .tp_keys);
842 1302 2 IF .lib$gl_valreq
843 1303 2 THEN
844 1304 2     begin
845 1305 2         if .value_desc[dsc$w_length] eql 0
846 1306 2         then
847 1307 2             SIGNAL_STOP ( lib$_novalue, 1, token_desc [dsc$w_length])
848 1308 2         ELSE
849 1309 2             IF NOT lib$cvt_dtb(.value_desc[dsc$w_length], .value_desc[dsc$a_pointer],
850 1310 2                 resultvector[lib$gl_tpindex])
851 1311 2             THEN SIGNAL_STOP (lib$_badkey, 1, value_desc [dsc$w_length]);
852 1312 2             lib$gl_cre8flags = .lib$gl_cre8flags OR 1^.lib$gl_tpindex;
853 1313 2         END;
854 1314 2     END;
```

```
03FC 00000 SCAN_OPTIONS:
59 0000' CF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9 1260
58 0000' CF 9E 00007 MOVAB LIB$GL TPINDEX, R9
5E 10 C2 0000C MOVAB TOKEN_DESC, R8
04 58 DD 0000F 1$: SUBL2 #16, SP 1281
04 AC DD 00011 PUSHL R8
03 02 FB 00014 PUSHL QUALIFIER_DESC
50 58 00019 CALLS #2, CLISGET_VALUE
00A3 31 0001C BLBS R0, 2$
6E 68 08 28 0001F 2$: MOVCL #8, TOKEN_DESC, KEY_DESC 1283
52 68 3C 00023 MOVZWL TOKEN_DESC, R2 1284
63 53 04 A8 D0 00026 MOVL TOKEN_DESC+4, R3
52 3D 3A 0002A LOCC #61, R2, (R3)
02 12 0002E BNEQ 3$
51 D4 00030 CLRL R1
56 51 D0 00032 3$: MOVL R1, PTR
12 12 00035 BNEQ 5$
63 52 3A 3A 00037 LOCC #58, R2, (R3) 1286
02 12 0003B BNEQ 4$
56 51 D4 0003D CLRL R1
05 D0 0003F 4$: MOVL R1, PTR
08 AE B4 00044 CLRW 5$
1D 11 00047 BRB VALUE_DESC 1287
01 A6 9E 00049 5$: MOVAB 1(R6), VALUE_DESC+4 1289
53 56 C3 0004E SUBL3 PTR, R3, R0 1292
08 AE 51 B0 00052 MOVAB -1(R0)(R2), R1 1293
50 51 B0 00057 MOVW R1, VALUE_DESC
08 AE 3C 0005B MOVZWL VALUE_DESC, R0 1294
52 50 C2 0005F SUBL2 R0, R2
6E 52 01 A3 00062 SUBW3 #1, R2, KEY_DESC
69 7C 00066 6$: CLRL LIB$GL TPINDEX 1299
7E 08 AC 7D 00068 MOVQ TP_STATES, -(SP) 1301
08 AE 9F 0006C PUSHAB KEY_DESC
03 03 FB 0006F CALLS #3, CALL TPARSE
57 50 D0 00074 MOVL R0, STATOS
94 04 A9 E9 00077 BLBC LIB$GL VALREQ, 1$ 1302
08 AE B5 0007B TSTW VALUE_DESC 1305
0C 12 0007E BNEQ 7$
58 DD 00080 PUSHL R8 1307
01 DD 00082 PUSHL #1
00861104 8F DD 00084 PUSHL #8786180
23 11 0008A BRB 8$
50 69 D0 0008C 7$: MOVL LIB$GL TPINDEX, R0 1310
10 BC 40 DF 0008F PUSHAL @RESULTVECTOR(R0)
10 AE DD 00093 PUSHL VALUE_DESC+4
10 AE 3C 00096 MOVZWL VALUE_DESC, -(SP)
00000000G 00 03 FB 0009A CALLS #3, LIB$CVT_DTB
12 50 E8 000A1 BLBS R0, 9$
```

LIB_GETCMD
V04=000

scan_options

1 5
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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| | | | | | | | | | |
|----|-----------|----------|------|----|-------|--------|-------------------------|---|------|
| | | 08 | AE | 9F | 000A4 | PUSHAB | VALUE_DESC | | |
| | | | 01 | DD | 000A7 | PUSHL | #1 | : | 1311 |
| | | 0086110C | 8F | DD | 000A9 | PUSHL | #8786188 | : | |
| 50 | 00000000G | 00 | 03 | FB | 000AF | CALLS | #3, LIB\$STOP | : | |
| | | 01 | 69 | 78 | 000B6 | ASHL | LIB\$GL TPINDEX, #1, R0 | : | 1312 |
| | 0000G | CF | 50 | C8 | 000BA | BISL2 | R0, LIB\$GL_CRE8FLAGS | : | |
| | | | FF4D | 31 | 000BF | BRW | 1\$ | : | 1281 |
| | | 50 | 57 | D0 | 000C2 | MOVL | STATUS, R0 | : | 1315 |
| | | | | 04 | 000C5 | RET | | : | 1316 |

; Routine Size: 198 bytes, Routine Base: \$CODE\$ + 05C4


```

858 1317 1 %SBTTL 'call_tparse & value_req & syntaxerr';
859 1318 1
860 1319 1 ROUTINE call_tparse (str_desc, states, keys )=
861 1320 2 BEGIN
862 1321 2 MAP
863 1322 2     str_desc : REF BBLOCK;
864 1323 2 LOCAL
865 1324 2     status;
866 1325 2
867 1326 2 CH$FILL(0, tpa$length0, tpa_block);
868 1327 2 tpa_block [tpa$l_count] = tpa$k_count0;
869 1328 2 tpa_block [tpa$l_options] = tpa$m_abbrev;
870 1329 2 tpa_block [tpa$l_stringcnt] = .str_desc [dsc$w_length];
871 1330 2 tpa_block [tpa$l_stringptr] = .str_desc [dsc$a_pointer];
872 1331 2 tpa_desc = .str_desc;
873 1332 2
874 1333 2 status = lib$tparse (tpa_block, .states, .keys);
875 1334 2 RETURN .status;
876 1335 1 END;                                !OF call_tparse
```

| | | | | 007C 00000 CALL_TPARE: | | | | | |
|----|-----------|----|-------|------------------------|----|-------|--------|-------------------------------|------|
| | | 56 | 0000' | CF | 9E | 00002 | .WORD | Save R2,R3,R4,R5,R6 | 1319 |
| 24 | 00 | 6E | | 00 | 2C | 00007 | MOVAB | TPA_BLOCK, R6 | |
| | | | | 66 | | 0000C | MOVCS | #0, -(SP), #0, #36, TPA_BLOCK | 1326 |
| | | 66 | | 08 | D0 | 0000D | MOVL | #8, TPA_BLOCK | 1327 |
| | 04 | A6 | | 02 | D0 | 00010 | MOVL | #2, TPA_BLOCK+4 | 1328 |
| | | 50 | 04 | AC | D0 | 00014 | MOVL | STR_DESC, R0 | 1329 |
| | 08 | A6 | | 60 | 3C | 00018 | MOVZWL | (R0), TPA_BLOCK+8 | |
| | 0C | A6 | 04 | A0 | D0 | 0001C | MOVL | 4(R0), TPA_BLOCK+12 | 1330 |
| | 24 | A6 | | 50 | D0 | 00021 | MOVL | R0, TPA_DESC | 1331 |
| | | 7E | 08 | AC | 7D | 00025 | MOVQ | STATES, -(SP) | 1333 |
| | | | | 56 | DD | 00029 | PUSHL | R6 | |
| | 00000000G | 00 | | 03 | FB | 0002B | CALLS | #3, LIB\$TPARSE | |
| | | | | 04 | 00 | 0032 | RET | | 1335 |

; Routine Size: 51 bytes, Routine Base: \$CODE\$ + 068A

```

877 1336 1
878 1337 1 ROUTINE value_req =
879 1338 2 BEGIN
880 1339 2 lib$gl_valreq = .tpa_block [tpa$l_param];
881 1340 2 RETURN true;
882 1341 1 END;                                ! of value_req
```

| | | | | 0000 00000 VALUE_REQ: | | | | | |
|--|-------|----|-------|-----------------------|----|-------|-------|------------------------------|------|
| | | | | | | | .WORD | Save nothing | 1337 |
| | 0000' | CF | 0000' | CF | D0 | 00002 | MOVL | TPA_BLOCK+32, LIB\$GL_VALREQ | 1339 |

LIB_GETCMD
V04=000

call_tparse & value_req & syntaxerr

K 5
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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50 01 D0 00009 MOVL #1, R0
04 0000C RET

: 1340
: 1341

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 06BD

```
: 883 1342 1
: 884 1343 1 ROUTINE syntaxerr =
: 885 1344 2 BEGIN
: 886 1345 2
: 887 1346 2 This routine is called when TPARSE encounters an error
: 888 1347 2
: 889 1348 2 SIGNAL_STOP (.tpa_block [tpa$l_param], 1, .tpa_desc);
: 890 1349 2 RETURN true;
: 891 1350 1 END;
```

0000 00000 SYNTAXERR:

```
0000' CF DD 00002 .WORD Save nothing
01 DD 00006 PUSHL TPA_DESC
0000' CF DD 00008 PUSHL #1
03 FB 0000C PUSHL TPA_BLOCK+32
01 D0 00013 CALLS #3, LIB$STOP
04 00016 MOVL #1, R0
RET
```

: 1343
: 1348
: 1349
: 1350

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 06CA

selectcrosref

```
893 1351 1 %SBTTL 'selectcrosref';
894 1352 1
895 1353 1 ROUTINE selectcrosref =
896 1354 2 BEGIN
897 1355
898 1356 2 This routine processes the /CROSS qualifier.
899 1357 2
900 1358 2 LOCAL
901 1359 2     firstvalue,
902 1360 2     optionindex;
903 1361 2 BIND
904 1362 2     crefbits = lib$gl_creflags : BITVECTOR;
905 1363 2
906 1364 2 firstvalue = true;
907 1365 2
908 1366 2 There were some values, so get and check them
909 1367 2
910 1368 2 WHILE cli$get_value(sd_cross_reference, token_desc) DO
911 1369 2 BEGIN
912 1370 2     IF NOT lib$lookup_key (token_desc, crf_table, !And look it up
913 1371 2         optionindex)
914 1372 2 THEN
915 1373 2 BEGIN
916 1374 2     IF NOT lib$lookup_key (token_desc, opt_table, !See if all or none
917 1375 2         optionindex)
918 1376 2 THEN SIGNAL_STOP (
919 1377 2     lib$_badkey, 1, token_desc [dsc$w_length]) !and error if none of these
920 1378 2 ELSE IF optionindex EQL 0 !If /CROSS=ALL
921 1379 2     THEN lib$gl_creflags = -1 !then set all flags
922 1380 2     ELSE lib$gl_creflags = 0;
923 1381 2 END
924 1382 2 ELSE crefbits [optionindex] = true; !Set the flag bit
925 1383 2 firstvalue = false;
926 1384 2 END;
927 1385 2 IF firstvalue
928 1386 2 THEN
929 1387 2 BEGIN
930 1388 2     lib$gl_creflags [lib$_crfbysym] = true; !/cross only, so give cref by symbol
931 1389 2     lib$gl_creflags [lib$_crfbyval] = true; ! and cref by value
932 1390 2     RETURN true;
933 1391 2 END;
934 1392 2 RETURN true
935 1393 1 END;
```

!of selectcrosref

CREFBITS=

LIB\$GL_CREFLAGS

003C 0000 SELECTCROSREF:

| | | | | | | | |
|----|-----------|----|----|------------|-------|----------------------|------|
| 55 | 0000' | CF | 9E | 00002 | WORD | Save R2,R3,R4,R5 | 1353 |
| 54 | 00000000G | 00 | 9E | 00007 | MOVAB | LIB\$GL_CREFLAGS, R5 | |
| 53 | 0000' | CF | 9E | 0000E | MOVAB | LIB\$LOOKUP_KEY, R4 | |
| 5E | | 04 | C2 | 00013 | MOVAL | TOKEN_DESC, R3 | |
| 52 | | 01 | D0 | 00016 | SUBL2 | #4, SP | |
| | | 53 | DD | 00019 1\$: | MOVL | #1, FIRSTVALUE | 1364 |
| | | | | | PUSHL | R3 | 1368 |

| | | | | | | | | |
|-----------|----|----------|----|----|-------|--------|----------------------------|------|
| 0000G | CF | 0000' | CF | 9F | 0001B | PUSHAB | SD_CROSS_REFERENCE | ... |
| | 42 | | 02 | FB | 0001F | CALLS | #2, CLISGET_VALUE | ... |
| | | | 50 | E9 | 00024 | BLBC | R0, 6\$ | 1370 |
| | | 94 | 5E | DD | 00027 | PUSHL | SP | ... |
| | | | A3 | 9F | 00029 | PUSHAB | CRF_TABLE | ... |
| | | | 53 | DD | 0002C | PUSHL | R3 | ... |
| | 64 | | 03 | FB | 0002E | CALLS | #3, LIB\$LOOKUP_KEY | ... |
| | 2D | | 50 | E8 | 00031 | BLBS | R0, 4\$ | 1374 |
| | | B0 | 5E | DD | 00034 | PUSHL | SP | ... |
| | | | A3 | 9F | 00036 | PUSHAB | OPT_TABLE | ... |
| | | | 53 | DD | 00039 | PUSHL | R3 | ... |
| | 64 | | 03 | FB | 0003B | CALLS | #3, LIB\$LOOKUP_KEY | ... |
| | 13 | | 50 | E8 | 0003E | BLBS | R0, 2\$ | ... |
| | | | 53 | DD | 00041 | PUSHL | R3 | 1377 |
| | | | 01 | DD | 00043 | PUSHL | #1 | ... |
| | | 0086110C | 8F | DD | 00045 | PUSHL | #8786188 | ... |
| 00000000G | 00 | | 03 | FB | 0004B | CALLS | #3, LIB\$STOP | ... |
| | | | 11 | 11 | 00052 | BRB | 5\$ | ... |
| | | | 6E | D5 | 00054 | TSTL | OPTIONINDEX | 1378 |
| | | | 05 | 12 | 00056 | BNEQ | 3\$ | ... |
| | 65 | | 01 | CE | 00058 | MNEGL | #1, LIB\$GL_CREFLAGS | 1379 |
| | | | 08 | 11 | 0005B | BRB | 5\$ | ... |
| | | | 65 | D4 | 0005D | CLRL | LIB\$GL_CREFLAGS | 1380 |
| | | | 04 | 11 | 0005F | BRB | 5\$ | 1370 |
| 00 | 65 | | 6E | E2 | 00061 | BBSS | OPTIONINDEX, CREFBITS, 5\$ | 1382 |
| | | | 52 | D4 | 00065 | CLRL | FIRSTVALUE | 1383 |
| | | | B0 | 11 | 00067 | BRB | 1\$ | 1368 |
| | 03 | | 52 | E9 | 00069 | BLBC | FIRSTVALUE, 7\$ | 1385 |
| | 65 | | 03 | 88 | 0006C | BISB2 | #3, LIB\$GL_CREFLAGS | 1389 |
| | 50 | | 01 | D0 | 0006F | MOVL | #1, R0 | 1392 |
| | | | 04 | 00 | 00072 | RET | | 1393 |

; Routine Size: 115 bytes, Routine Base: \$CODE\$ + 06E1


```
get_name_list
1394 1 %SBTTL 'get_name_list';
1395 1 ROUTINE get_name_list (list_head, qualifier_desc) =
1396 2 BEGIN
1397 2
1398 2 This routine recalls CLI to get the names of all the keys associated with
1399 2 a qualifier (i.e. /DELETE=module1:module2:...:moduleN). If there are no
1400 2 keys, the image is stopped with an error.
1401 2
1402 2 If the keys are there, they are extracted and put on a list.
1403 2
1404 2 MAP
1405 2     List_head : REF VECTOR [2];
1406 2 BUILTIN
1407 2     INSQUE,
1408 2     NULLPARAMETER;
1409 2 LOCAL
1410 2     firstvalue;
1411 2     firstvalue = true;
1412 2 WHILE cli$get_value(.qualifier_desc, token_desc) DO !While there are more values
1413 2     BEGIN
1414 2         LOCAL
1415 2             status,
1416 2             namblk : REF BBLOCK;
1417 2         IF NOT (status = lib_get_mem (lnb$fixedsize + .token_desc [dsc$w_length],
1418 2             namblk)) !Allocate memory
1419 2         THEN SIGNAL_STOP (.status);
1420 2         INSQUE (.namblk, .list_head [1]); !Insert in queue
1421 2         namblk [lnb$b_naming] = .token_desc [dsc$w_length]; !Set size of name
1422 2         CH$MOVE (.namblk [lnb$b_naming], .token_desc [dsc$a_pointer],
1423 2             namblk [lnb$t_name]); !Copy the name
1424 2         firstvalue = false;
1425 2     END;
1426 2 IF .firstvalue
1427 2 THEN
1428 2     BEGIN
1429 2         IF .NULLPARAMETER(2)
1430 2         THEN SIGNAL_STOP ( lib$novalue )
1431 2         ELSE SIGNAL_STOP ( lib$novalue, 1, .qualifier_desc );
1432 2     END;
1433 2 RETURN true
1434 1 END;
```

```
01FC 00000 GET_NAME_LIST:
58      0000' CF 9E 00002      WORD      Save R2,R3,R4,R5,R6,R7,R8
57 00000000G 00 9E 00007      MOVAB     TOKEN_DESC, R8
5E      04 C2 0000E      MOVAB     LIB$STOP, R7
56      01 D0 00011      SUBL2      #4, SP
          58 DD 00014 1$:      MOVL      #1, FIRSTVALUE
          AC DD 00016      PUSHL      R8
          02 FB 00019      PUSHL      QUALIFIER_DESC
          50 E9 0001E      CALLS     #2, CLI$GET_VALUE
          33      50 E9 0001E      BLBC     R0, 3$
          SE DD 00021      PUSHL      SP
```

```
: 1395
:
: 1411
: 1412
:
: 1417
```

| | | | | | | | | |
|----|----|----------|----|-------|-------|--------|---------------------------|------|
| | 7E | | 68 | 3C | 00023 | MOVZWL | TOKEN_DESC, -(SP) | |
| | 6E | | 0A | CO | 00026 | ADDL2 | #10, TSP) | |
| | CF | 0000G | 02 | FB | 00029 | CALLS | #2, LIB_GET_MEM | |
| | 05 | | 50 | E8 | 0002E | BLBS | STATUS, -2\$ | |
| | | | 50 | DD | 00031 | PUSHL | STATUS | 1419 |
| | 67 | | 01 | FB | 00033 | CALLS | #1, LIB\$STOP | |
| | 50 | | AC | D0 | 00036 | MOVL | LIST_HEAD, R0 | 1420 |
| | 04 | B0 | 00 | BE | 0E | INSQUE | @NAMBLK, @4(R0) | |
| | 50 | | 6E | D0 | 0003F | MOVL | NAMBLK, R0 | 1421 |
| | 09 | A0 | | 68 | 90 | MOVB | TOKEN_DESC, 9(R0) | |
| | 51 | | 09 | A0 | 9A | MOVZBL | 9(R0), R1 | 1422 |
| OA | A0 | 04 | B8 | 51 | 28 | MOVZBL | R1, @TOKEN_DESC+4, 10(R0) | 1423 |
| | | | | 56 | D4 | CLRL | FIRSTVALUE | 1424 |
| | | | | CO | 11 | BRB | 1\$ | 1412 |
| | 2F | | 56 | E9 | 00054 | BLBC | FIRSTVALUE, 7\$ | 1426 |
| | 02 | | 6C | 91 | 00057 | CMPB | (AP), #2 | 1429 |
| | | | 05 | 1E | 0005A | BGEQU | 4\$ | |
| | 50 | | 01 | D0 | 0005C | MOVL | #1, R0 | |
| | | | 09 | 11 | 0005F | BRB | 5\$ | |
| | | | 50 | D4 | 00061 | CLRL | R0 | |
| | | 08 | AC | D5 | 00063 | TSTL | 8(AP) | |
| | | | 02 | 12 | 00066 | BNEQ | 5\$ | |
| | | | 50 | D6 | 00068 | INCL | R0 | |
| | 0B | | 60 | E9 | 0006A | BLBC | (R0), 6\$ | |
| | | 00861104 | 8F | DD | 0006D | PUSHL | #8786180 | 1430 |
| | 67 | | 01 | FB | 00073 | CALLS | #1, LIB\$STOP | |
| | | | 0E | 11 | 00076 | BRB | 7\$ | |
| | | 08 | AC | DD | 00078 | PUSHL | QUALIFIER_DESC | 1431 |
| | | | 01 | DD | 0007B | PUSHL | #1 | |
| | | 00861104 | 8F | DD | 0007D | PUSHL | #8786180 | |
| | 67 | | 03 | FB | 00083 | CALLS | #3, LIB\$STOP | |
| | 50 | | 01 | D0 | 00086 | MOVL | #1, R0 | 1433 |
| | | | 04 | 00089 | RET | | | 1434 |

; Routine Size: 138 bytes, Routine Base: \$CODE\$ + 0754

```
clearsqueeze & setsqueeze

: 979      1435 1 XSBTTL 'clearsqueeze & setsqueeze';
: 980      1436 1 ROUTINE clearsqueeze =
: 981      1437 2 BEGIN
: 982      1438 2 |
: 983      1439 2 | Clear the local squeeze bit
: 984      1440 2 |
: 985      1441 2 squeeze flag = 0;
: 986      1442 2 RETURN true
: 987      1443 1 END;
```

```
0000 00000 CLEARQUEUEZ:
                                .WORD Save nothing
                                CLRL SQUEEZE_FLAG
50 0000' CF D4 00002          MOVL #1, R0
                                01 D0 00006
                                04 00009 RET
```

```
: 1436
: 1441
: 1442
: 1443
```

; Routine Size: 10 bytes, Routine Base: \$CODE\$ + 07DE

```
: 988      1444 1 ROUTINE setsqueeze =
: 989      1445 2 BEGIN
: 990      1446 2 |
: 991      1447 2 | Set local squeeze bit
: 992      1448 2 |
: 993      1449 2 squeeze flag = 1;
: 994      1450 2 RETURN true
: 995      1451 1 END;
```

```
0000 00000 SETSQUEEZE:
                                .WORD Save nothing
                                MOVL #1, SQUEEZE_FLAG
                                MOVL #1, R0
                                01 D0 00002
                                01 D0 00007
                                04 0000A RET
```

```
: 1444
: 1449
: 1450
: 1451
```

; Routine Size: 11 bytes, Routine Base: \$CODE\$ + 07E8

```

: 997      1452 1 %SBTTL 'before_date';
: 998      1453 1 ROUTINE before_date =
: 999      1454 1
: 1000     1455 1 | This routine passes the address of lib$before_date
: 1001     1456 1 | to date_parse to be set
: 1002     1457 1 |
: 1003     1458 2 BEGIN
: 1004     1459 2 clis$get_value(sd before, token_desc);
: 1005     1460 2 date_parse( lib$before_date );
: 1006     1461 2 RETURN true;
: 1007     1462 1 END;
```

```

                                0000 00000 BEFORE_DATE:
                                .WORD      Save nothing
                                PUSHAB     TOKEN_DESC
                                PUSHAB     SD_BEFORE
                                CALLS      #2, CLISGET_VALUE
                                PUSHAB     LIB$BEFORE_DATE
                                CALLS      #1, DATE_PARSE
                                MOVL       #1, R0
                                RET
0000G  CF      9F 00002
0000G  CF      9F 00006
0000G  CF      9F 0000A
0000V  CF      9F 0000F
      50      01 FB 00013
      01      01 D0 00018
      04      04 0001B
```

```

: 1453
: 1459
: 1460
: 1461
: 1462
```

; Routine Size: 28 bytes. Routine Base: \$CODE\$ + 07F3

; 1008 1463 1 %SBTTL 'since_date';


```
1010 1464 1 ROUTINE since_date =
1011 1465 1
1012 1466 1 This routine passes the address of lib$since_date
1013 1467 1 to date_parse to be set
1014 1468 1
1015 1469 2 BEGIN
1016 1470 2 cli$get_value(sd_since, token_desc);
1017 1471 2 date_parse( lib$since_date );
1018 1472 2 RETURN true;
1019 1473 1 END;
```

```
0000 00000 SINCE_DATE:
0000' CF 9F 00002 .WORD Save nothing
0000' CF 9F 00006 PUSHAB TOKEN_DESC
0000G CF 02 FB 0000A CALLS #2, CLISGET VALUE
0000V CF 01 FB 0000F PUSHAB LIB$SINCE_DATE
50 01 D0 00018 CALLS #1, DATE_PARSE
04 0001B MOVL #1, R0
RET
```

```
1464
1470
1471
1472
1473
```

; Routine Size: 28 bytes, Routine Base: \$CODE\$ + 080F

```
1020 1474 1 %SBTTL 'date_parse';
1021 1475 1 ROUTINE date_parse ( date ) =
1022 1476 1 ----
1023 1477 1
1024 1478 1 Functional description
1025 1479 1
1026 1480 1 This routine parses the value on the /SINCE and /BEFORE
1027 1481 1 qualifiers. It converts the ASCII value of the qualifier
1028 1482 1 into 64-bit system date format. The value can be a date
1029 1483 1 string (such as dd-mmm-yyyy hh:mm:ss.s) or the keywords
1030 1484 1 YESTERDAY or TODAY.
1031 1485 1
1032 1486 1 Output parameters
1033 1487 1
1034 1488 1 lib$since_date = Date if /SINCE specified.
1035 1489 1 lib$before_date = Date if /BEFORE specified.
1036 1490 1
1037 1491 1 ----
1038 1492 2 BEGIN
1039 1493 2
1040 1494 2 BIND
1041 1495 2 date_field = .date : ref bblock;
1042 1496 2 LOCAL
1043 1497 2 status; ! Status return value
1044 1498 2
1045 1499 2
1046 1500 2 Convert the ASCII string into 64-bit system time format.
1047 1501 2
1048 1502 2 status = lib$cvt_time(token_desc, date_field);
```

LIB_GETCMD
V04=000

date_parse

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```

: 1049      1503 2
: 1050      1504 2 IF NOT .status
: 1051      1505 2 THEN
: 1052      1506 2     SIGNAL_STOP(.status);
: 1053      1507 2
: 1054      1508 2 RETURN true;
: 1055      1509 1 END;
```

```

! If error in conversion,
! then output error message
```

```

                                0000 00000 DATE_PARSE:
                                04 AC DD 00002      .WORD      Save nothing
                                0000 CF 9F 00005      PUSHL      DATE
                                00000000G 00 02 FB 00009  PUSHAB     TOKEN_DESC
                                09          50 E8 00010  CALLS      #2, LIB$CVT_TIME
                                00000000G 00 50 DD 00013  BLBS       STATUS, 1$
                                50          01 FB 00015  PUSHL      STATUS
                                00000000G 00 01 DD 0001C 1$ CALLS      #1, LIB$STOP
                                50          01 D0 0001C 1$ MOVL       #1, R0
                                04 0001F 04 0001F      RET
```

```

: 1475
: 1502
: 1504
: 1506
: 1508
: 1509
```

; Routine Size: 32 bytes, Routine Base: \$CODE\$ + 082B

```
1057 1510 1 %SBTTL 'allocate_fdb & initialize_fdb';
1058 1511 1 ROUTINE allocate_fdb (fdbadr) =
1059 1512 2 BEGIN
1060 1513 3
1061 1514 3 This routine allocates a file descriptor block and initializes it.
1062 1515 3
1063 1516 3 LOCAL
1064 1517 3     status;
1065 1518 3
1066 1519 3 IF NOT (status = lib_get_mem (fdbsize, .fdbadr))      !Allocate the FDB
1067 1520 3 THEN SIGNAL_STOP (.status);
1068 1521 3 initialize_fdb (..fdbadr);                          !and initialize it
1069 1522 3 RETURN true
1070 1523 1 END;
```

| | | | | 0000 00000 | ALLOCATE_FDB: | | |
|--|--|--|--|------------|---------------|--------------------|------|
| | | | | | WORD | Save nothing | 1511 |
| | | | | | PUSHL | FDBADR | 1519 |
| | | | | | MOVZWL | #670, -(SP) | |
| | | | | | CALLS | #2, LIB_GET_MEM | |
| | | | | | BLBS | STATUS, -1\$ | |
| | | | | | PUSHL | STATUS | 1520 |
| | | | | | CALLS | #1, LIB\$STOP | |
| | | | | | PUSHL | @FDBADR | 1521 |
| | | | | | CALLS | #1, INITIALIZE_FDB | |
| | | | | | MOVL | #1, R0 | 1522 |
| | | | | | RET | | 1523 |

| | | | | 04 | AC | DD | 00002 | |
|--|--|--|--|----|----|----|-------|------|
| | | | | | 8F | 3C | 00005 | |
| | | | | | 02 | FB | 0000A | |
| | | | | | 50 | E8 | 0000F | |
| | | | | | 50 | DD | 00012 | |
| | | | | | 01 | FB | 00014 | |
| | | | | | BC | DD | 0001B | 1\$: |
| | | | | | 01 | FB | 0001E | |
| | | | | | 01 | DD | 00023 | |
| | | | | | 04 | | 00026 | |

| | | | | 04 | AC | DD | 00002 | |
|--|--|--|--|----|----|----|-------|------|
| | | | | | 8F | 3C | 00005 | |
| | | | | | 02 | FB | 0000A | |
| | | | | | 50 | E8 | 0000F | |
| | | | | | 50 | DD | 00012 | |
| | | | | | 01 | FB | 00014 | |
| | | | | | BC | DD | 0001B | 1\$: |
| | | | | | 01 | FB | 0001E | |
| | | | | | 01 | DD | 00023 | |
| | | | | | 04 | | 00026 | |

; Routine Size: 39 bytes, Routine Base: \$CODE\$ + 084B

```
1071 1524 1 ROUTINE initialize_fdb (fdbadr) =
1072 1525 2 BEGIN
1073 1526 3
1074 1527 3 This routine initializes a pre-allocated FDB
1075 1528 3
1076 1529 3 MAP
1077 1530 3     fdbadr : REF BBLOCK;
1078 1531 3 LOCAL
1079 1532 3     namblk : REF BBLOCK;
1080 1533 3     rsblk : REF BBLOCK;
1081 1534 3     namblk = fdbadr [fdb$nam];
1082 1535 3     rsblk = .namblk + nam$c_bln;
1083 1536 3     CH$FILL (0, fdbsize, .fdbadr);
1084 1537 3     namblk [nam$l_rsa] = .rsblk;
1085 1538 3     namblk [nam$b_rss] = nam$c_maxrss;
1086 1539 3     namblk [nam$l_esa] = .rsblk + nam$c_maxrss;
1087 1540 3     namblk [nam$b_ess] = nam$c_maxrss;
1088 1541 3
1089 1542 3     namblk [nam$b_bid] = nam$c_bid;
1090 1543 3     namblk [nam$b_bln] = nam$c_bln;
1091 1544 3 RETURN true
1092 1545 1 END;
```

!Pointer to NAM block
!Pointer to resultant name string area
!Point to NAM block part
!Point to resultant string area
!Zero the FDB
!Store RSA address
!And its length
!Expanded name string goes
!in same place so errors
!messages are correct.
!Identify it as a NAM
!...

| | | | | 00FC 00000 INITIALIZE_FDB: | | | | | | |
|------|----|----|-------------|----------------------------|----|-------|-------|-----------------------------|---|------|
| | 56 | 04 | AC 00000040 | 8F | C1 | 00002 | .WORD | Save R2,R3,R4,R5,R6,R7 | : | 1524 |
| | | | 57 60 | A6 | 9E | 0000B | ADDL3 | #64, FDBADR, NAMBLK | : | 1534 |
| 029E | 8F | 00 | 6E 04 | 00 | 2C | 0000F | MOVAB | 96(R6), RSBLK | : | 1535 |
| | | | | BC | | 00016 | MOVCS | #0, (SP), #0, #670, @FDBADR | : | 1536 |
| | | 04 | A6 | 57 | D0 | 00018 | MOVL | RSBLK, 4(NAMBLK) | : | 1537 |
| | | 0C | A6 00FF | C7 | 9E | 0001C | MOVAB | 255(R7), 12(NAMBLK) | : | 1539 |
| | | 0A | A6 | 01 | 8E | 00022 | MNEGB | #1, 10(NAMBLK) | : | 1540 |
| | | | 66 | 02 | 90 | 00026 | MOVB | #2, (NAMBLK) | : | 1542 |
| | | 01 | A6 FF60 | 8F | B0 | 00029 | MOVW | #65376, 1(NAMBLK) | : | 1543 |
| | | | 50 | 01 | D0 | 0002F | MOVL | #1, R0 | : | 1544 |
| | | | | 04 | 00 | 00032 | RET | | : | 1545 |

; Routine Size: 51 bytes, Routine Base: \$CODE\$ + 0872


```
set_*_type
: 1094      1546 1 %SBTTL 'set_*_type';
: 1095      1547 1 ROUTINE set_lib_type (type, defext) =
: 1096      1548 2 BEGIN
: 1097      1549 2 |
: 1098      1550 2 | This routine sets the default library type and default extension
: 1099      1551 2 |
: 1100      1552 2 MAP
: 1101      1553 2 |     defext : REF VECTOR [4];
: 1102      1554 2 |     lib$gl_type = .type;           !Set library type
: 1103      1555 2 |     CH$MOVE (dsc$c_s_bln, defext [0], def_lib_extn);
: 1104      1556 2 |     CH$MOVE (dsc$c_s_bln, defext [2], def_fil_extn);
: 1105      1557 2 |     RETURN true
: 1106      1558 1 END;
```

| | | | | | | | | | |
|-------|----|----|----|--------------------------|----------|-------------------------|--|--|------|
| | | | | 007C 00000 SET_LIB_TYPE: | | | | | |
| | | | | | .WORD | Save R2,R3,R4,R5,R6 | | | 1547 |
| | | | | | MOVL | TYPE, LIB\$GL_TYPE | | | 1554 |
| | | | | | MOVL | DEFEXT, R6 | | | 1555 |
| 0000' | CF | | | 08 | 28 0000C | #8, (R6), DEF_LIB_EXTN | | | |
| 0000' | CF | 08 | A6 | 08 | 28 00012 | #8, 8(R6), DEF_FIL_EXTN | | | 1556 |
| | | | 50 | 01 | D0 00019 | MOV R1, R0 | | | 1557 |
| | | | | 04 | 0001C | RET | | | 1558 |

; Routine Size: 29 bytes, Routine Base: \$CODE\$ + 08A5

```
: 1107      1559 1 ROUTINE set_text_type =
: 1108      1560 1 |
: 1109      1561 1 | This routine is called when the /text qualifier is processed.
: 1110      1562 1 |
: 1111      1563 1 RETURN set_lib_type (lib$s_text, lib_txt_defext);
```

| | | | | | | | | | |
|----|----|--|--|---------------------------|----------|------------------------|--|--|------|
| | | | | 0000 00000 SET_TEXT_TYPE: | | | | | |
| | | | | | .WORD | Save nothing | | | 1559 |
| | | | | | PUSHAB | LIB_TXT_DEFEXT | | | 1563 |
| | | | | | PUSHL | #4 | | | |
| D7 | AF | | | 02 | FB 00008 | CALLS #2, SET_LIB_TYPE | | | |
| | | | | 04 | 0000C | RET | | | |

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 08C2

```
: 1112      1564 1 ROUTINE set_help_type =
: 1113      1565 1 |
: 1114      1566 1 | This routine is called when the /HELP qualifier is processed.
: 1115      1567 1 |
: 1116      1568 1 RETURN set_lib_type (lib$s_help, lib_hlp_defext);
```

```

0000 00000 SET_HELP_TYPE:
0000G CF 9F 00002      -WORD      Save nothing
          03 DD 00006      PUSHAB     LIB_HLP_DEFE XT
          02 FB 00008      PUSHL      #3
          04 0000C      CALLS      #2, SET_LIB_TYPE
          RET

```

; Routine Size: 13 bytes, Routine Base: \$CODES + 08CF

```

: 1117      1569 1 ROUTINE set_macro_type =
: 1118      1570 1
: 1119      1571 1 | This routine is called when the /MACRO qualifier is processed.
: 1120      1572 1 |
: 1121      1573 1 RETURN set_lib_type (lib$$macro, lib_mac_defext);

```

```

0000 00000 SET_MACRO TYPE:
0000G CF 9F 00002 .WORD Save nothing
02 DD 00006 PUSHAB LIB_MAC_DEFE XT
02 FB 00008 PUSHL #2
04 0000C CALLS #2, SET_LIB_TYPE
RET

```

; Routine Size: 13 bytes, Routine Base: \$CODES + 08DC

```

: 1122      1574 1 ROUTINE set_object_type =
: 1123      1575 1 |
: 1124      1576 1 | This routine is called when the /OBJECT qualifier is processed.
: 1125      1577 1 |
: 1126      1578 1 RETURN set_lib_type (lib$$_object, lib_obj_defext);

```

```

0000 00000 SET_OBJECT TYPE:
0000G CF 9F 00002 .WORD Save nothing
01 DD 00006 PUSHAB LIB_OBJ_DEFE XT
02 FB 00008 PUSHL #1
04 0000C CALLS #2, SET_LIB_TYPE
RET

```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 08E9

```

: 1127      1579 1 ROUTINE set_shr_type =
: 1128      1580 1
: 1129      1581 1 | This routine is called when the /SHARE qualifier is processed.
: 1130      1582 1

```

LIB_GETCMD
V04=000

; 1131

set_*_type

1583 1 RETURN set_lib_type (lib\$s_shrstb, lib_shr_defext);

K 6
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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[LIBRAR.SRC]GETCMD.B32;1

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| | | | | | | | |
|----|----|-------|------|----------|---------------|------------------|--|
| | | | 0000 | 00000 | SET_SHR_TYPE: | | |
| | | | | | .WORD | Save nothing | |
| | | 0000G | CF | 9F 00002 | PUSHAB | LIB_SHR_DEFEXT | |
| | | | 05 | DD 00006 | PUSHL | #5 | |
| A3 | AF | | 02 | FB 00008 | CALLS | #2, SET_LIB_TYPE | |
| | | | 04 | 0000C | RET | | |

: 1579
: 1583
:
:
:

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 08F6

; 1132

1584 1

```
set_*_type
: 1134      1585 1 ROUTINE clierror ( errorcode ) : novalue =
: 1135      1586 2 BEGIN
: 1136      1587 2
: 1137      1588 2 This routine is called by the result parser if it detects any
: 1138      1589 2 error in the command. REQUESTDESC is the address of the current
: 1139      1590 2 parameter descriptor and ERRORCODE is the encoded reason for
: 1140      1591 2 the error.
: 1141      1592 2
: 1142      1593 2 SIGNAL_STOP (.errorcode);          !Print error message and quit
: 1143      1594 2 RETURN;
: 1144      1595 1 END;
```

0000 00000 CLIERROR:

```
00000000G 00      04 AC DD 00002      .WORD      Save nothing
                   01 FB 00005      PUSHL      ERRORCODE
                   04 0000C      CALLS      #1, LIB$STOP
                           RET
```

```
: 1585
: 1593
: 1595
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0903

```
: 1145      1596 1 END
: 1146      1597 0 ELUDOM          ! Of module
```

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

| Name | Bytes | Attributes |
|--------------|-------|--|
| \$SPLITS | 540 | NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |
| \$GLOBALS | 12 | NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |
| \$OWNS | 1116 | NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |
| -LIB\$KEY0\$ | 32 | NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1) |
| -LIB\$STATES | 371 | NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1) |
| -LIB\$KEY1\$ | 123 | NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1) |
| \$CODE\$ | 2320 | NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |

Library Statistics

| File | ----- Total | Symbols Loaded | ----- Percent | Pages Mapped | Processing Time |
|-------------------------------------|----------------|-------------------|------------------|-----------------|--------------------|
| -\$255\$DUA28:[SYSLIB]STARLET.L32;1 | 9776 | 103 | 1 | 581 | 00:01.0 |
| -\$255\$DUA28:[SYSLIB]CLIMAC.L32;1 | 14 | 0 | 0 | 9 | 00:00.1 |
| -\$255\$DUA28:[SYSLIB]TPAMAC.L32;1 | 42 | 25 | 59 | 14 | 00:00.1 |

LIB_GETCMD
V04=000

set_*_type

M 6
16-Sep-1984 01:53:13
14-Sep-1984 12:38:03

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[LIBRAR.SRC]GETCMD.B32;1

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COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:GETCMD/OBJ=OBJ\$:GETCMD MSRC\$:GETCMD/UPDATE=(ENH\$:GETCMD)

; Size: 2320 code + 2194 data bytes
; Run Time: 01:07.7
; Elapsed Time: 02:18.8
; Lines/CPU Min: 1415
; Lexemes/CPU-Min: 38989
; Memory Used: 362 pages
; Compilation Complete

0201 AH-BT13A-SE
VAX/VMS V4.0

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